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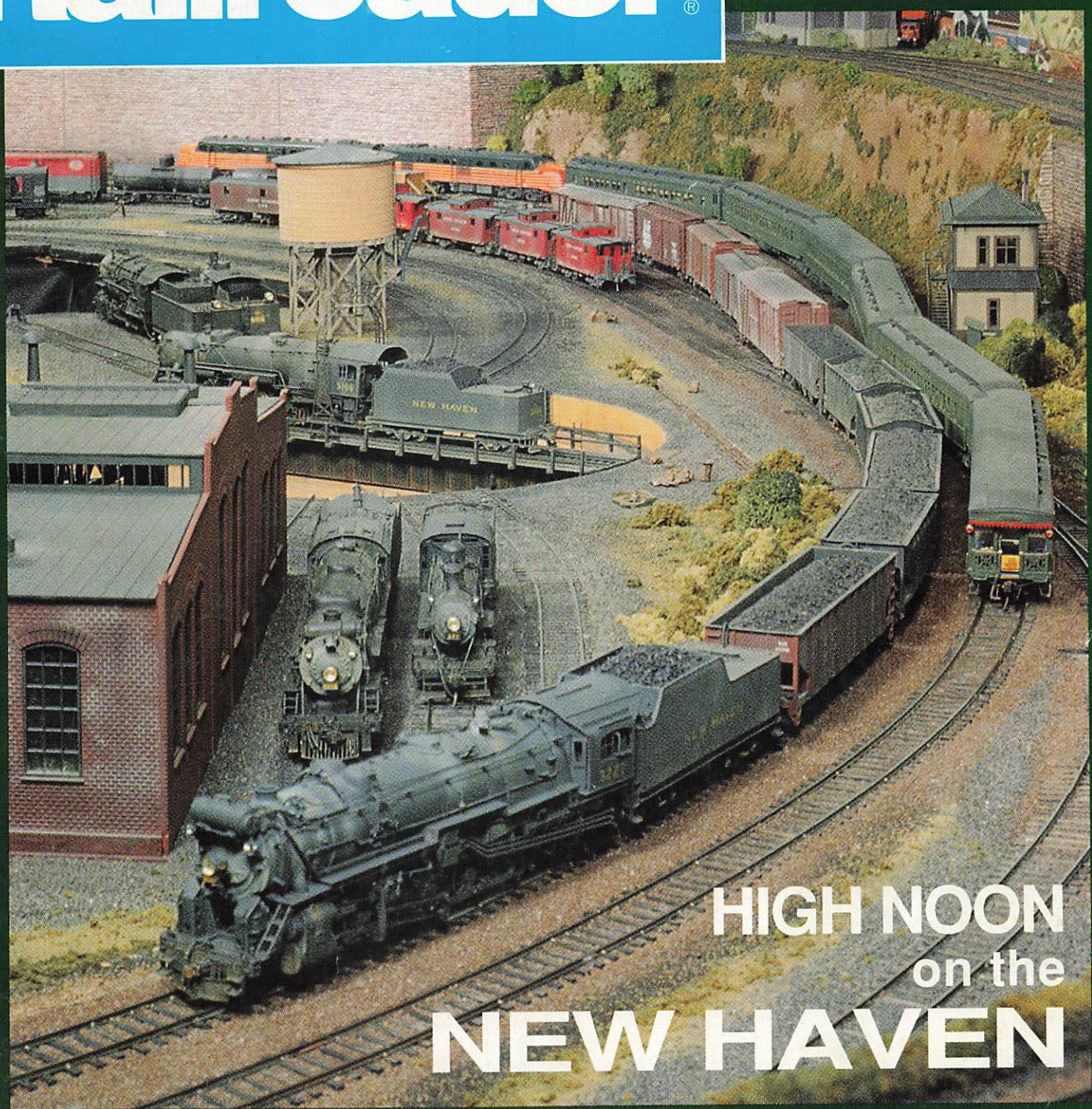
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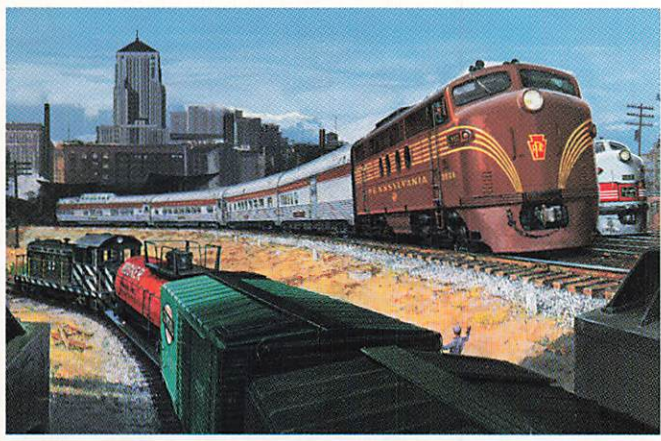


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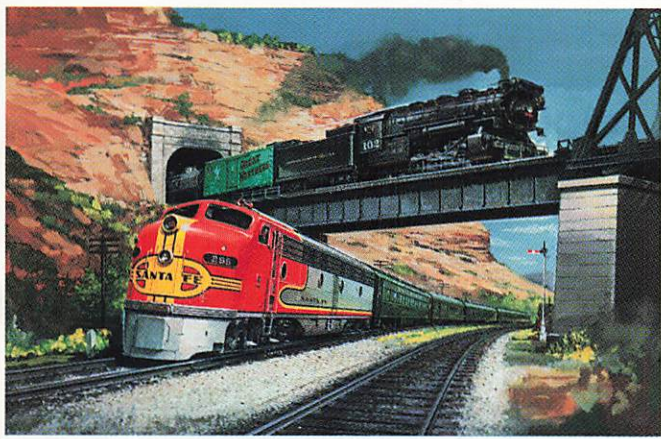
ALL AMERICAN LOCOMOTIVE PRINTS



#352 - Midwest Terminal- A streamlined passenger train departs on the main track, while a small switcher is engaged in shunting its string of freight cars.



#353 - The Union Pacific Fast Freight- The drama and grace of the UP railroad, noted for speedy freight trains pulled by multiple units of diesel locomotives, is captured in this print.



#354 - Santa Fe "War Bonnet"- This popular locomotive is shown accelerating a passenger train; while on the bridge above, a heavy steam switcher wrestles with a long cut of freight cars.



#355 - Mainline Action- The Santa Fe is a freight and passenger scheme. Also shown, a Pennsylvania Railroad FP-7 loco and a Burlington Route SD-24.

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ON THE COVER

Heavy traffic is the rule at the New Haven, Conn., yards of the New York, New Haven & Hartford RR. Here at the east throat of the yard, an L-1 2-10-2 drags a long freight bound for Providence, R. I., past the Cedar Hill roundhouse, while the parlor cars of the *Yankee Clipper* snake into the station on the way to New York City. John Pryke's HO railroad re-creates the bustling New Haven system of 1948, and he invites us into his basement to see it in his article beginning on page 80. John took all his own photographs, including our cover photo.

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Feature articles: Before preparing an article it's best to write a letter of inquiry to determine if we're interested. A writing guide and a checklist for writing construction articles are available on request from the editorial secretary. Clear, sharp photos are essential. Finished artwork is usually prepared by our artists, following the author's sketches. Articles are paid for on acceptance.

Prototype drawings: Nearly all drawings of prototype locomotives, cars, and structures are prepared by outside contributors. If you are interested, please write and ask for our guidelines on drawing. Send a sample of your work if possible. Payment is made upon acceptance.

Trackside Photos: Only model railroad subjects are used. Color photos should be original transparencies (slides), and glossy black-and-white prints should be at least 5" x 7". Payment is made upon publication.

Paint Shop: Articles on painting locomotives, cars, structures, and various scenic accessories are welcome. The primary requirements are clear, sharp photographs of the finished model (color transparencies and black-and-white prints) and a brief, typewritten description of the project. Payment for such features is made upon publication. No payment is made for Ask Paint Shop questions.

Model of the Month: To qualify for the award please submit sharp photographs, either color transparencies or black-and-white prints, and a description of the work done. Winners receive a \$100 cash prize, along with a framed copy of the award page. Payment is also made for the photos used at our regular rates.

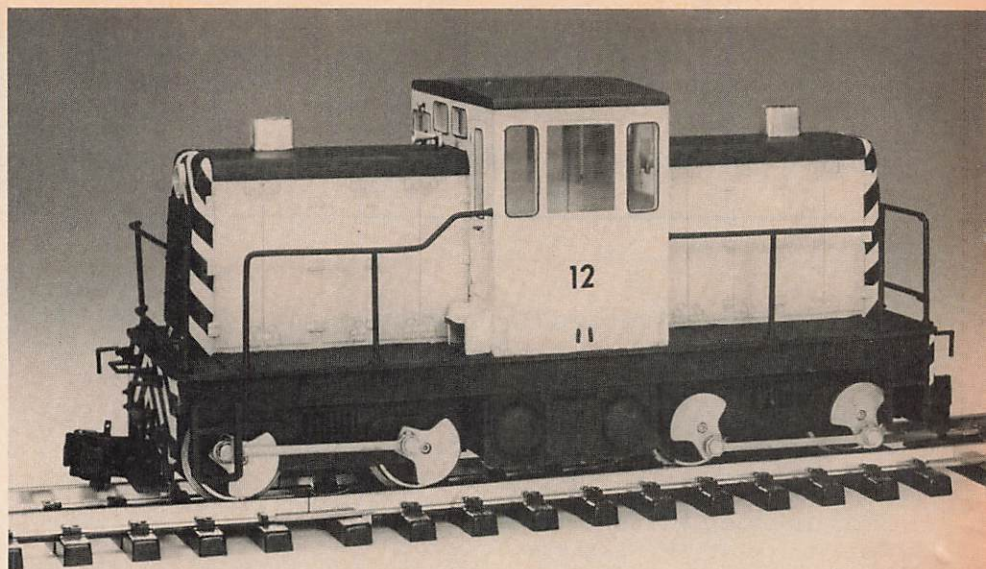
Other departments: For submitting material to departments not mentioned here, turn to the department itself and the text at the beginning for specific information.

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A note to manufacturers and suppliers: If you would like to see your products mentioned in Product News, Product Reviews, Hobbyshop Window, Railroader's Library, or Video Library, write or call for information.



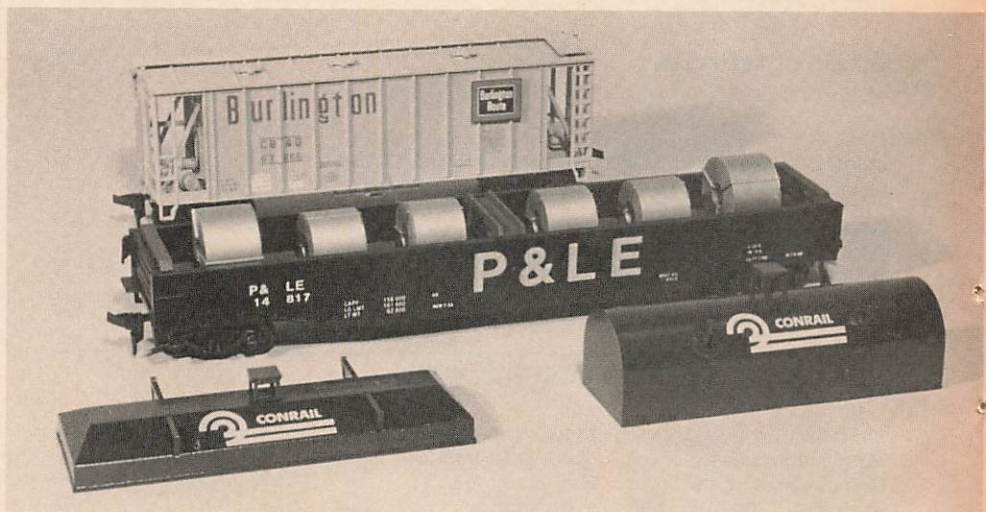
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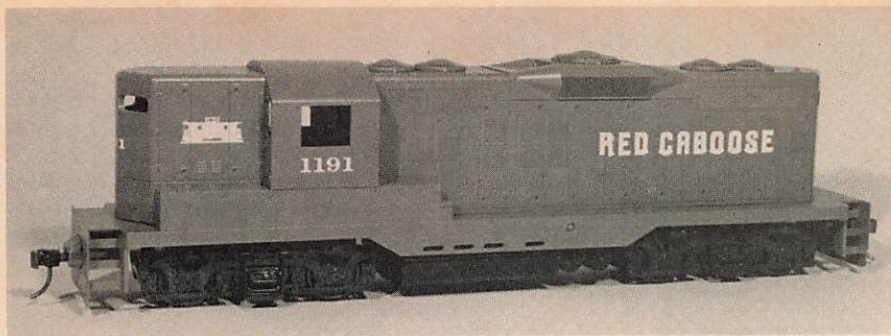
Gn3 GE 45-ton diesel: Bachmann Industries Inc., 1400 E. Erie Ave., Philadelphia, PA 19124, announced production of a 1:22.5 scale General Electric 45-ton diesel switcher decorated for the Atchison, Topeka & Santa Fe, Baltimore & Ohio, and Pennsylvania RR.

Seventh annual Chicago Hobby Show report

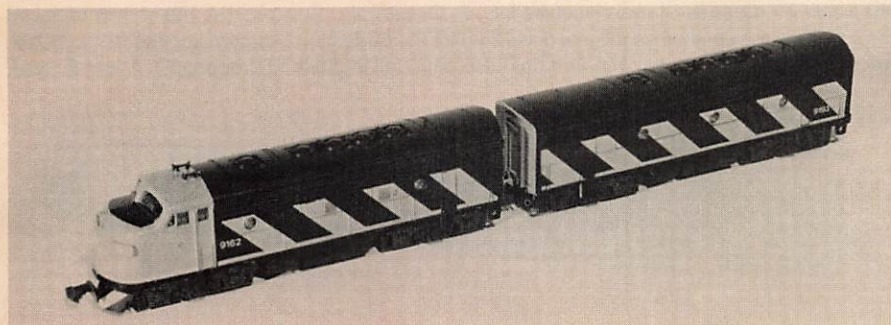
THE SEVENTH ANNUAL Chicago Model Hobby Show was held the weekend of October 31 through November 3, 1991, at the O'Hare Exposition Center in Rosemont, Ill. This combined trade and public show is jointly sponsored by the Model Railroad Industry Association and the Radio Control Hobby Trade Association. It showcases the new products of more than 350 manufacturers and importers involved in model railroading, as well as radio-controlled and static models of aircraft, motor vehicles, military equipment, and boats. Quite a few new model railroad items were introduced at this year's show, and they're highlighted here and in the following pages. — *Jim Hediger*



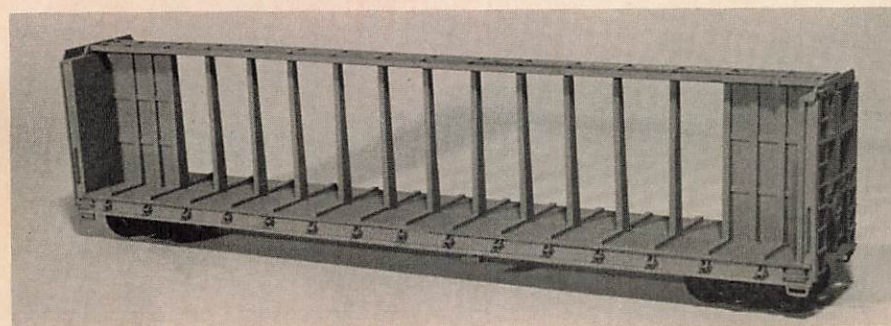
HO coil steel gondola and Airslide covered hopper: JMC International, 1025 Industrial Dr., Bensenville, IL 60106, has coil steel gondola car kits with hoods and coil loads decorated for the Atchison, Topeka & Santa Fe, Chessie System, Conrail, and Norfolk Southern. The firm has also announced production of early Airslide 2600-cubic-foot covered hoppers in 16 road names.



O gauge GP9 diesel: Red Caboose, 2828 G St., Merced, CA 95340, showed samples of the firm's styrene GP9 that features a Pittman motor, flywheels, steel wheels, and directional lighting.



N scale Canadian National F7s: Kato U. S. A. Inc., 781 Dillon Dr., Wood Dale, IL 60191, has Canadian National EMD F7A and F7B diesels painted in the modern red, gray, and black colors.



HO center-beam bulkhead flatcar: McKean Models, Box 4815, Evansville, IN 47724-0815, has announced production of open-style Thrall center-beam lumber car kits in molded styrene.



N scale ACF two-bay Center Flow covered hopper: Atlas Model Railroad Co. Inc., 378 Florence Ave., Hillside, NJ 07205, is making ready-to-run ACF two-bay Center Flow covered hoppers decorated in the ACF demonstrator color scheme as well as for the Burlington Northern, Erie-Lackawanna, Great Northern, Norfolk & Western, Seaboard System, and Union Pacific.

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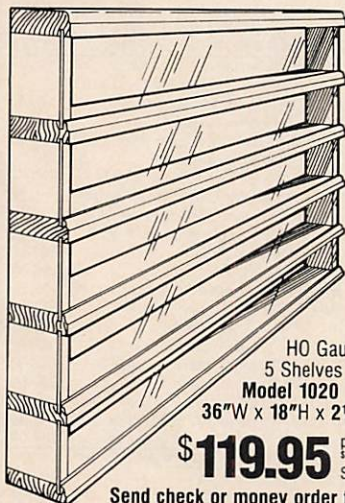
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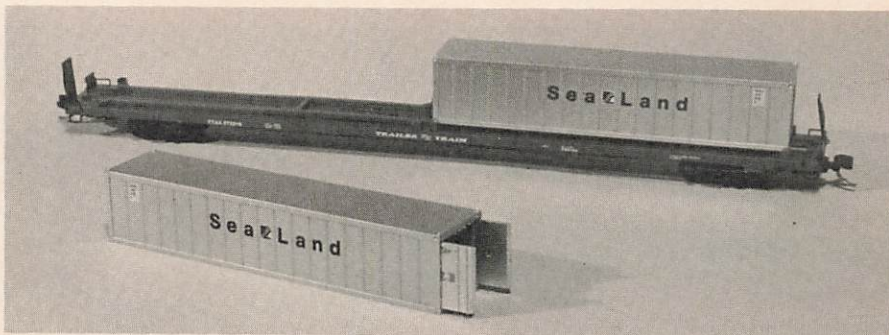
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HO scale F9 diesels: Stewart Hobbies Inc., P. O. Box 341, Chalfont, PA 18914, has released EMD F9 diesels with dual headlights decorated for the Burlington Northern and the Chicago, Milwaukee, St. Paul & Pacific. The firm has also announced plans to produce FT A and B units.



HO scale double-stack intermodal car: A-Line Div. of Proto Power West, 3432 Lucero Ave., La Verne, CA 91750, announced production of styrene "Husky Stack" intermodal car kits.



N scale container flatcar: Micro-Trains Line, 720 S. Grape St., Medford, OR 97501, is making an 89-foot container flatcar with a pair of 40-foot shipping containers that have operating doors.



Multiple scales power packs: Model Rectifier Corp., P. O. Box 267, Edison, NJ 08818, displayed the new Power Command 9000 and 9500 and the Sound & Power 7000 power packs.

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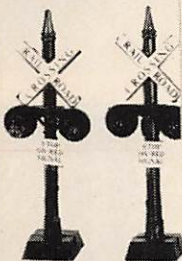


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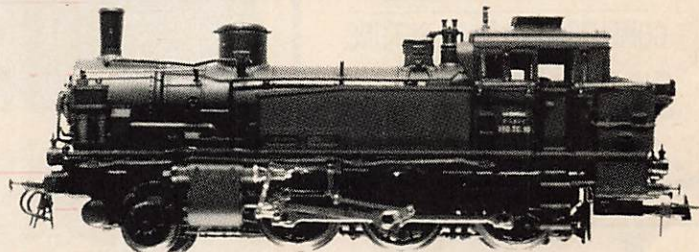
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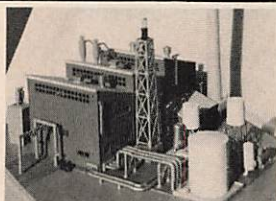
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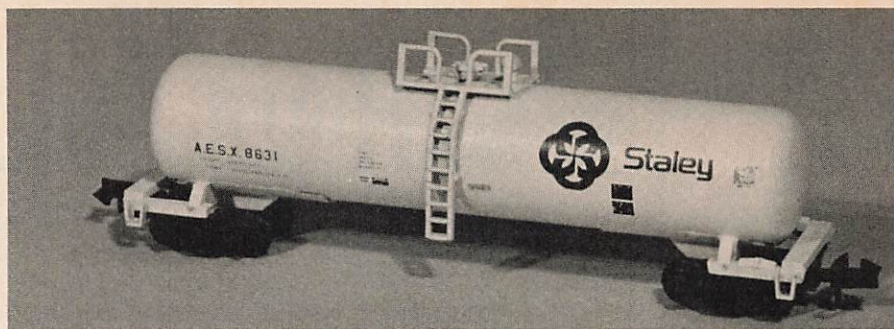
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This GREEN MAX KIT has all the parts and more to make the factory your layout needs! Easy to follow pictorial instructions. Fine detail. Extra tanks, piping and stacks available to expand. Only \$15.75 plus \$3.50 postage and handling per order. (OH res. add 5-3/4% sales tax)

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| Extra tanks and pipes | GM 37-2 | \$6.50 |
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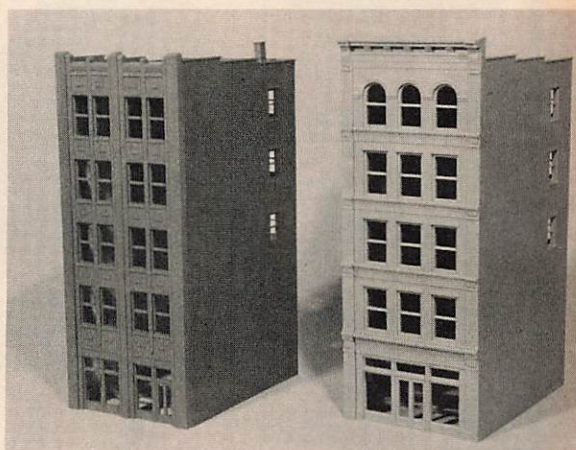
TRC MODELS

Box 13177, Fairlawn, OH 44334
TOMIX and GREEN MAX dealer

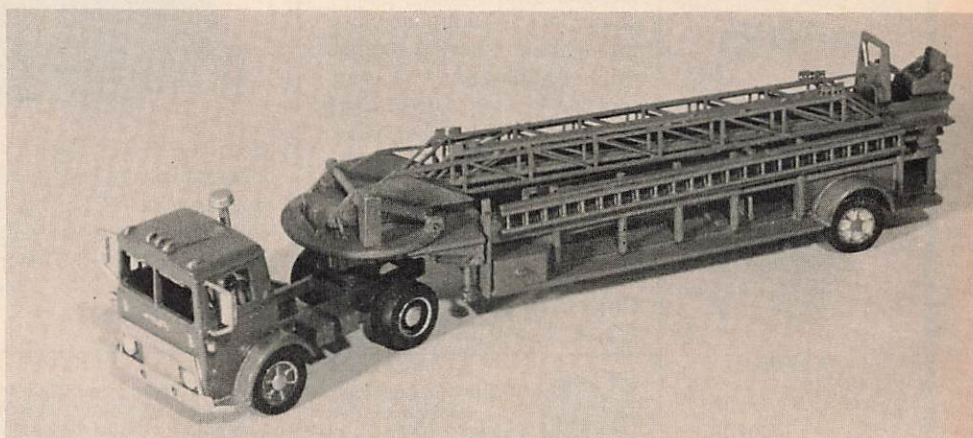
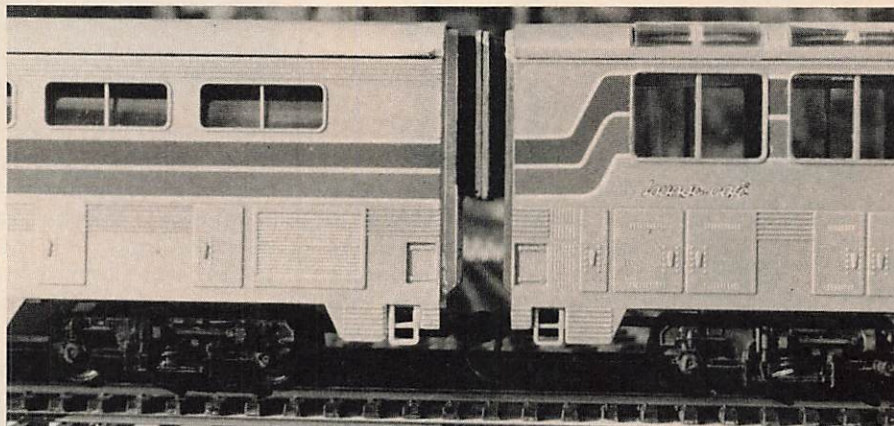


N scale tank car: Model Die Casting Inc., P. O. Box 926, Hawthorne, CA 90251, announced production of injection-molded styrene kits for a series of modern 50-foot tank cars.

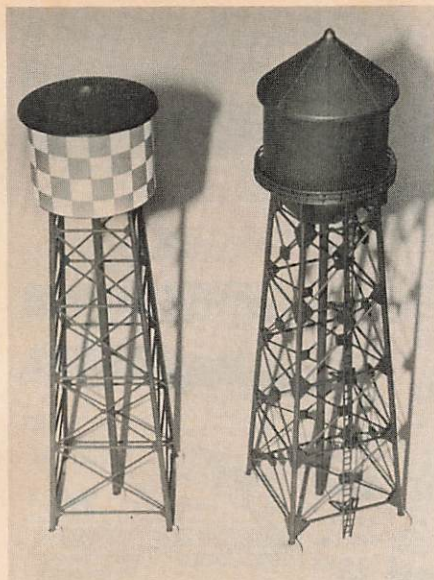
HO city structures: City Classics, P. O. Box 16502, Pittsburgh, PA 15242, has released a pair of five-story city building kits with two-piece front walls designed for kitbashing into larger structures.



HO passenger-car diaphragms and trucks: Train Station Products Div. of Quality-Wright Corp., P. O. Box 32, Dublin, OH 43017, is making diaphragms that are intended for use on Amtrak Amfleet, Horizon, Metroliner, Superliner, and Viewliner passenger cars. The firm is also producing trucks featuring built-in draft-gear boxes designed for Con-Cor Superliner cars.



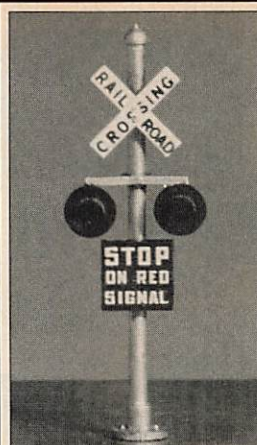
HO scale fire ladder truck: NJ International, 77 W. Nicolai St., Hicksville, NY 11801, is offering a cast white metal kit for a fire department ladder truck with a Mack "C" cab tractor.



HO water tanks: Korber Models, P. O. Box 101, Clementon, NJ 08021, markets a series of injection-molded styrene water tank kits.



Multiple scales tree kits: Woodland Scenics, P. O. Box 98, Linn Creek, MO 65052, has kits for 5- to 7-inch trees. Each kit includes enough bendable molded plastic trunks, poly fiber, and green ground foam to make seven trees.



**Now you can have
a crossing flasher
that is both scale
& affordable – HO scale**

KIT #113 2/\$15.95

**AT YOUR HOBBY SHOP OR DIRECT
ADD \$3.50 SHIPPING**



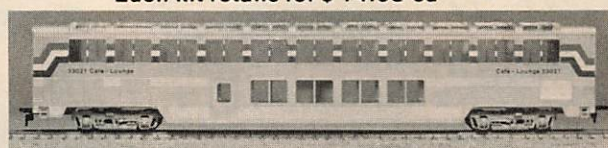
RAIL SUPPLY 7212 N. OLYMPIA • PORTLAND, OR 97203



'HO' SuperLiners Back Again!

We have recently completed a large re-run of our very popular HO Amtrak Superliner Passenger Cars. These are full 85' scale length, and come complete with metal RP-25 wheels, take only about 10 minutes to assemble. This run is the Phase II (early years) paint scheme.

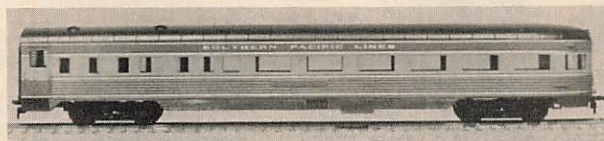
Each kit retails for \$14.98 ea



- #01-000801 Coach Car
- #01-000811 Dining Car
- #01-000821 Coach-Baggage
- #01-000831 Sleeping Car
- #01-000841 Cafe-Lounge Car

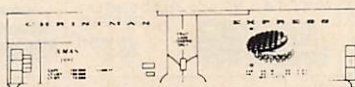
'HO' 85 Ft. Passenger Cars

We have not run our popular series of full scale 85 Ft. passenger cars in about two years. For now we are running 8 of the most popular body styles (the 9th car, the Budd Dome/Observation will be run next spring). These cars are a 10 minute kit assembly, and come complete with RP-25 metal wheels.



Each kit retails for \$13.98 with the exception of the Amtrak cars, which are \$16.98 each.

| Roadname: | Coach | Dome | Diner | Baggage | Reg. Obs. | 10/6 Pullman | Slumbercoach | Budd Dome |
|---------------------------|-------|------|-------|---------|-----------|--------------|--------------|-----------|
| Undecorated | 0701 | 0711 | 0721 | 0741 | 0731 | 0791 | 0751 | 0781 |
| Santa Fe | 0702 | 0712 | 0722 | 0742 | 0732 | 0792 | 0752 | 0782 |
| Pennsylvania | 0703 | 0713 | 0723 | 0743 | 0733 | 0793 | 0753 | 0783 |
| Amtrak (phase I scheme) | 710E | 720E | 730E | 750E | 740E | 800E | 760E | 790E |
| New York Central | 0705 | 0715 | 0725 | 0745 | 0735 | 0795 | 0755 | 0785 |
| Southern Ry (Silver cars) | 710F | 720F | 730F | 750F | 740F | 800F | 760F | 790F |



1991 'HO' Christmas Car!

Con-Cor has been producing an annual Christmas Car since 1975, and the early cars in the series have become very valuable collectors items.

The theme of this years Christmas car is 'the Fruitcake'. We have no idea how many refrigerator cars of Fruitcakes Santa delivers every year, but is a very long train indeed.

Of course the 'Fruitcake' car is also available in HO Scale for the HO Collectors.

- #01-8713 HO Christmas 'Fruitcake' car \$ 8.98
- #01-8714 N Christmas 'Fruitcake' car \$ 8.98

HO 54' Gondola

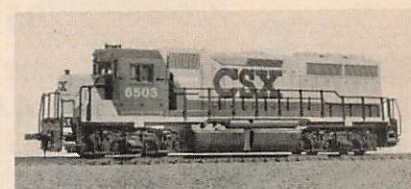
(With Scrap Metal Load) \$7.98 ea car

Novel car which includes a bunch of locomotive parts on the way to the scrap dealer. (Sideframes, bells etc.)

- #01-9028 Alaska Railroad (Blue car/Yellow print)
- #01-9029 Wisconsin Central (Black car, White print)
- #01-9030 Montana Rail Line (Blue car, White/red print)
- #01-9031 Central Ry of New Jersey (Green car, gold print)

Dealers: Sold Thru over 20 Wholesalers coast to coast. Call 602-721-8939 for nearest wholesaler.

No Local dealer? You may order direct with check, Visa or Master Card. Add \$3.50 to all orders for handling.



HO Diesels: New Roadnames:

Our new GP-38 and GP-40 diesels are selling well, especially the new road paint schemes not available from anyone else.

NOTE: The GP-38 Hi-Nose tooling has been revised to correct the missing window problem!!! All new units have the correct windows! All locos \$74.98 ea

- #15-1018 Wisconsin Central GP-40 Cab #3011
- #15-1019 Wisconsin Central GP-40 Cab #3005
- #15-1020 CSX GP-40, new blue/gray/yellow Cab #6503
- #15-1021 CSX GP-40, new blue/gray/yellow Cab #6556
- #15-1022 Sou. Pacific GP-40 (new Flying SP logo) #7130
- #15-1023 Sou. Pacific GP-40 (new Flying SP logo) #7129
- #15-2020 Conrail (new white side sill scheme) Cab #7752
- #15-2021 Conrail (new white side sill scheme) Cab #7783
- Following are all Hi-Nose GP-38 (revised tooling)
- #15-3002 Norfolk Southern (horse logo), Cab #2743
- #15-3003 Norfolk Southern (horse logo), Cab #2762
- #15-3004 Norfolk & Western (black/white) Cab #4112
- #15-3005 Norfolk & Western (black/white) Cab #4155
- #15-3006 Pennsylvania Ry (Brunswick green) Cab #2381
- #15-3007 Pennsylvania Ry (Brunswick green) Cab #2385

**Con-Cor International
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Jupiter
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Pre-colored
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Nickel Silver Flex Track E4.169
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1 1/8", 1 3/8", 22". Each .33
Above Track in Nickel Silver .45

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No. 144 45" Degree.....
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No. 41 90" Degree.....
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N scale new: Six more Arnold 36-foot tank cars have been introduced by Wm. K. Walther's Inc., P. O. Box 18676, Milwaukee, WI 53218: General American Tank Car Co., Humble Oil, Interstate Fuel & Oil, Shell Oil, Texaco, and Union Tank Line. They go with the firm's Interstate Fuel & Oil kit.

MR product news

HO scale new: Accurail Div. of Accurate Finishing Inc., P. O. Box 1202, Elburn, IL 60119, makes injection-molded plastic 40-foot double-door boxcar kits in 21 road names; 40-foot, single-door boxcars in 20 road names; a three-pack of Atchison, Topeka & Santa Fe 40-foot boxcars with name train slogans; and four limited-run covered hoppers (sold through Walther's only): Burlington Northern, Sands of Iowa, Union Pacific, and Valley Bean Growers.

Alamosa Car Shops, Goldline Products, P. O. Box 1722, Bellaire, TX 77402, offers a craftsman kit that builds into two HO N3 Denver & Rio Grande Western 6000-series flatcars. The kit includes

preassembled wood bodies, wire grab irons, Grandt Line trucks and details, Kadee couplers, and Microscale decals.

Atlas Model Railroad Co. Inc., 378 Florence Ave., Hillside, NJ 07205, has released Alco diesels in new paint schemes: RS-3s in Canadian Pacific, Great Northern, New Haven, Ontario Northland, and Rock Island; RSD-4/-5s in Atchison, Topeka & Santa Fe, Pennsylvania RR, and Southern Pacific; and RS-11s in Delaware & Hudson, Lehigh Valley, New York, Chicago & St. Louis (Nickel Plate), and Seaboard Coast Line.

C&BT Car Shops, 150 12th St., New Kensington, PA 15068, has announced production of injection-molded plastic kits for Santa Fe Refrigerator Dept. (Atchison, Topeka & Santa Fe) refrigerator cars in classes RR-19, RR-23, RR-25, RR-27, RR-28, and RR-32 with

paint schemes from the 1930s, 1940s, and 1950s.

Custom Rail Div. of Windmill Hobbies, P. O. Box 460, Batavia, IL 60510, makes undecorated scale 89-foot piggy-back flatcars and bi-level auto rack car kits. Painted cars and a tri-level version of the auto rack will follow.

Detail Associates, P. O. Box 5357, San Luis Obispo, CA 93403, has released a number of diesel locomotive parts, including the nos. 701 detail kit for Stewart F-series A units, 702 detail kit for Stewart F-series B units, 2216 curved grab irons, 2604 Western Pacific GP35/40 number boards, and 3203 GP35 air reservoirs. Additional car details are the nos. 6217 curved grab iron for tank cars, 6218 ACF round covered hopper hatches, 6226 Enterprise drop door chains, 6227 AB brake set, and 6605 scale 36" passenger car grab irons.

English's Model Railroad Supply Div. of Bowser Mfg. Co., P. O. Box 322, Montoursville, PA 17754-0322, has Athearn 40-foot boxcar kits decorated for the Atlantic Coast Line; Baltimore & Ohio (also with Sentinel Service or Timesaver); Chicago & North Western (Challenger or 400); Denver & Rio Grande Western (Cookie Box); Florida East Coast; Great Northern; Illinois Central; Lehigh Valley; Reading; Spokane, Portland & Seattle; Toledo, Peoria & Western; and Union Pacific.

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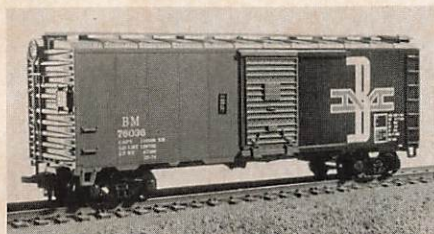
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ES Products, 2065 Lakeshore Dr., Carson City, NV 89704, has introduced a palm-sized infrared throttle and direction control designed as an add-on accessory to convert ordinary power packs to wireless remote control.

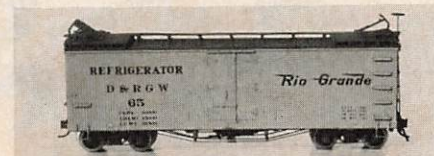
Great Train Stores, 17101 Preston Rd., Suite 250, Dallas, TX 75248, is selling Hornby train sets based on train characters in the popular PBS television series "Shining Time Station": Thomas the tank engine (0-6-0T) passenger train, Percy (0-4-0T) shunter freight, Gordon (4-6-2) passenger train, and James (2-6-0) passenger set. Call 1-800-833-6128 for more information.



Minuteman Paint Shop, 110 Bush Hill Rd., Pelham, NH 03076, produces a line of New England freight cars with decal lettering, including a 40-foot Boston & Maine McGinnis-era boxcar. Send a stamped (52 cents), self-addressed envelope for a list and prices.

Model Railroad Supply, 5660 N. Quail Ln., Middletown, IN 47356-9801, is offering a number of Monon RR freight car decal sets that include dimensional data and sufficient material for three cars. Number 300 is for 1940s (prewar) cars lettered in white, no. 301 features white lettering from the postwar era (including "The Hoosier Line" slogan in black), and no. 302 has 1960s modern-era black graphics. Send a stamped, self-addressed envelope for a price list and catalog sheet.

MTS Imports Inc., P. O. Box 50, Middletown, NY 10940, has announced plans to import brass models of the Reading Crusader 4-6-2 Pacific and a set of matching cars.



Precision Scale Co., 3961 Hwy. 93 N., Stevensville, MT 59870, has released injection-molded styrene kits with decals for an HO N3 Denver & Rio Grande Western 30-foot refrigerator car. The firm is also making Leslie three-chime air horns and EMD roof-mount bells cast in brass or styrene.

Sunset Models, 138 W. Campbell Ave., Campbell, CA 95008, is importing brass models of Atchison, Topeka &

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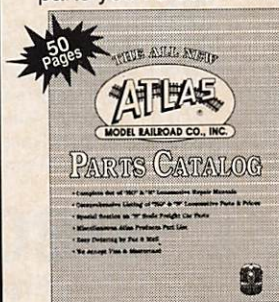
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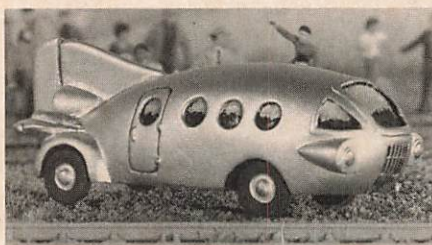
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Wm. K. Walthers Inc., P.O. Box 18676, Milwaukee, WI 53218, is adding the O. L. King & Sons Coal Yard to the firm's line of molded styrene Cornerstone kits. A limited run of Peabody twin hoppers and a Diamond T coal truck will be offered as coal yard accessories, and a 1930 rocket car is the latest circus item.

N scale new: Con-Cor, 1025 Industrial Dr., Bensenville, IL 60106, is marketing Budd Rail Diesel Cars in three-car sets that include a powered RDC-2 baggage-coach and two RDC-1 coaches. The sets are made undecorated (silver) or decorated for Amtrak; Atchison, Topeka & Santa Fe; and Pennsylvania RR. The firm is also making bi-level commuter sets (one cab car and two coaches) with corrugated-side cars decorated for Amtrak; Atchison, Topeka & Santa Fe; and Chicago, Milwaukee, St. Paul & Pacific; a smooth-side set comes in Chicago & North Western colors.

Microscale Industries Inc., P.O. Box 11950, Costa Mesa, CA 92627, has new decal lettering sets: nos. 60-174 old-time billboard refrigerator cars; 60-614 Conrail GE diesels (1970-91); 60-631 Burlington Northern 20th anniversary GP38; 60-634 intermodal containers; 60-635 Union Pacific lightweight passenger car names; 60-636 UP heavy-

weight car names; 60-637 Atchison, Topeka & Santa Fe Super Fleet General Electric Dash 8-40BW diesels; and 60-639 Louisville & Nashville Alco FA and RS-3 diesels.



Precision Masters Inc., P.O. Box 28094, Lakewood, CO 80228, has just introduced Pullman-Standard 16-post, 4740-cubic-foot covered hoppers decorated in Burlington Route's light gray, with red, white, and black graphics and Colorado & Southern reporting marks.

Wm. K. Walthers Inc., P.O. Box 18676, Milwaukee, WI 53218, has released kits for Interstate Fuel & Oil and the Shady Junction structure group as part of the firm's Cornerstone series. Six more Arnold 36-foot tank cars are also available: General American Tank Car Co. (GATX), Humble Oil, Interstate Fuel & Oil, Shell Oil, Texaco, and Union Tank Line (UTLX).

In the news: At the Model Railroad Industry Association's general membership meeting, Fred Hamilton, the advertising sales manager for MODEL RAILROADER and *Classic Toy Trains* Magazines, received the organization's Man of the Year Award. This award, which is sponsored by the National Model Railroad Association, recognizes Fred's efforts to promote membership and interest in the NMRA during the past year. Fred's major achievement was to obtain funding for the NMRA membership solicitation form that ran in the November 1991 issues of MR and *Railroad Model Craftsman*.

Correction: The review of the HO scale C. C. Crow structures (November 1991 MR) contained two price errors. The Southern Ry. freight house sells for \$48, and the brown box version of the Northern Pacific roundhouse is \$87.50. We hope this hasn't caused any difficulty.

CLIFF ROBINSON: 1913-1991

Cliff Robinson, friend and mentor to many well-known model railroaders past and present, died on October 3, 1991, after a lengthy battle with cancer. He is survived by his wife, Mary, daughter Fran, son Jack, and five grandchildren. He was 78.

Cliff wrote a few articles for MODEL RAILROADER in the 1950s, and his HO railroad, the Marquette Union Terminal, was featured in MR more than once — most recently in June of 1978. He helped to establish the National Model Railroad Association in its formative years, and was one of the founders of the NMRA's Lone Star Region.

Cliff might have been better known than he was, but he never wanted to be in the limelight and rarely took credit for his accomplishments. An innovator all his life, Cliff was the creator or motivator of many "firsts" in our hobby. He made contributions in such diverse areas as layout design, operation, control systems, locomotive performance, layout room esthetics, and computer applications. Preferring an advisory role in the background, Cliff delighted in the achievements of his friends.

Cliff was a special person. His advice was sought by more people than I'll ever know, and he had the knack of making anyone he spoke to feel like the most important person in the world. Cliff's only weakness was that he gave far more than he ever received. His influence is still with us, but we'll miss him a lot. — Keith Gutierrez

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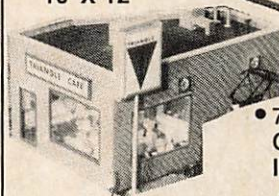
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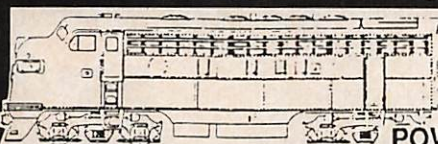
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| LOW FANS | | |

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|-------------------|---------|-----------|
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| 2 WINDOWS | 9230 | D&RGW |
| LOW FANS | 9240 | S.P. |
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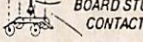
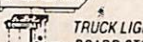
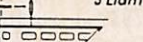
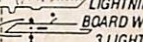
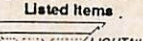
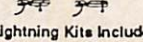
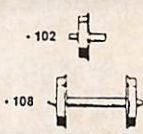
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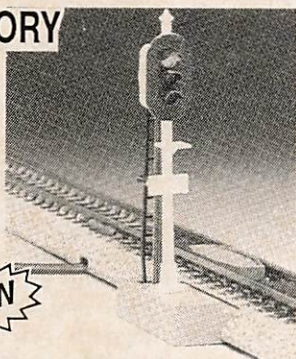


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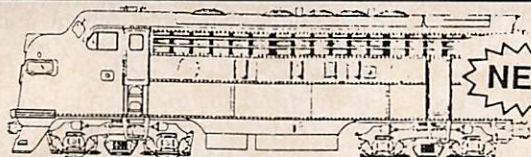
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| 092 | Canadian National | Orange/Gray/Black | A | Single | 9165 |
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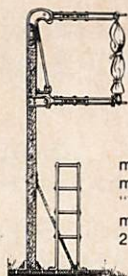
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Enjoyed "Town between tunnels": I particularly enjoyed the story on the Heritage Park HO layout in the November 1991 issue. Most model railroads belong to individuals or clubs with limited visibility to the public, so the Berkshire Model Railroad Club is to be congratulated for building a display layout for the Heritage Park Museum in North Adams, Mass.

The size of the layout indicates careful planning — large enough to capture the feel of the town in the 1950s, while small enough to be completed in a reasonable time. The fine scenery and many kitbashed and scratchbuilt structures based on the prototype allowed many of the members to actively participate in the construction of the layout. The results show the high level of modeling skills present in the club.

The construction of a museum layout is certainly worthwhile, and I hope that Lou Sassi's article will encourage other clubs to consider similar projects.

I also enjoyed the articles on popcorn scenery, the visit to Kato, and the use of Super Sculpture to make stone walls. Mr. Hodge's techniques were creative and effective and should become popular with many model railroaders. — *Bill Kennedy, Muncie, Ind.*

Modeling history: The article "A town between tunnels" and Tony Koester's Trains of Thought in the November 1991 MODEL RAILROADER should be good inspiration for modelers to re-create scenes from railroading's past.

Ideally, such efforts should be on permanent public display, not hidden in someone's basement. Most towns today

have some sort of historical museum. Here in New England, there are many 19th-century three-story brick schoolhouses that have been or can be converted to museum use. Most of them have an unobstructed room covering the entire third floor. Once the gymnasium, these rooms are an ideal place for a model railroad.

Through museum work I've found that the general public is still quite fascinated with trains and railroads, both full-size and miniature. By presenting model railroading as a three-dimensional art form that re-creates history, we can lose some of that negative image of being middle-aged adolescents trying to recapture lost childhood by playing with trains in the basement.

For public viewing, we must have generous aisle spaces, handicapped access, protection from overzealous children, climate and dust control, and adequate lighting (day/night effects are impressive). Sound effects and computer control add to the experience; the layout must operate with few flaws.

A proper historical layout designed for public viewing will cost somewhat more than we're used to, but under the umbrella of a nonprofit organization, it becomes eligible to receive tax deductible donations of both materials and money, as well as private and public grant funding. There should even be a good quantity of model railroad supplies and equipment that might be donated, leftovers from individual "dream" layouts that never got built.

When we build free-lance railroads, patterned after our own individual or collective whims, people ooh and ah briefly, but privately they think that we should "get a life." When we build a scale model of an actual historic scene and interpret it for all to see, enjoy, and learn from, they start to view us as serious historians.

Here's hoping every town that once had a railroad can turn back the clock in miniature form soon. — *Bob Yarger, News Editor, Locomotive & Railway Preservation Magazine, Richmond, Vt.*

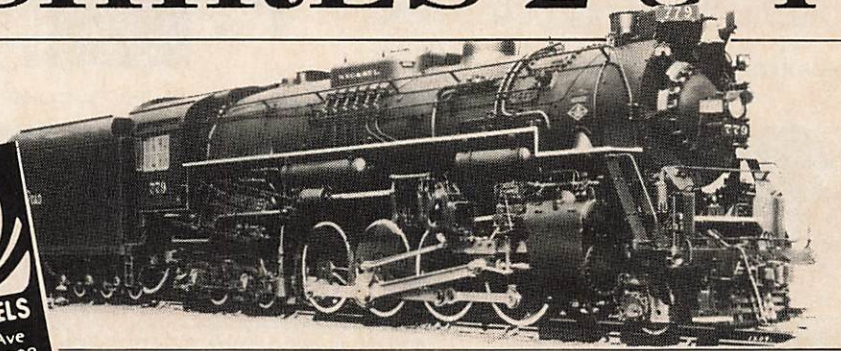
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Hoosac nits: I must say that the Heritage Park HO layout far more closely represents the 1960s than the 1950s. I worked at North Adams tower in the early 1950s and later as the West End train dispatcher controlling the same territory. At that time the Boston & Maine main line was still double-track all the way from East Deerfield to Mechanicville. When it was single-tracked it was at first — and for some time — the Hoosac tunnel only.

In the picture that's on page 85 of the November 1991 issue of *MODEL RAILROADER*, the tunnel doors are missing; not the overhead roll-down there now, but the manually operated wooden doors that preceded it. In season — usually November 1 to April 1 — the towerman had to call the doorman to have him crank the doors open when a train was approaching.

The accompanying text stated that "diesels could run through without a smoke problem . . ." Pardon my laughter. Smoke in the tunnel has remained a problem, though it's been reduced in recent years by the installation of a more powerful ventilating fan at the central shaft and lesser frequency of traffic.

In the mid-1980s I rode through on a locomotive when it was impossible to see more than 5 feet ahead. In bright sunlight we couldn't see the east portal until we were about 100 feet from it.

Frank Czubyrt painted his locomotive nicely, but he used the wrong lettering. The red and white script appeared on the P-3 (nos. 3700-09), P-4 (3710-19), and P-5 (3696-99) Pacifics as well as the R-1 Mountains, but it was never applied to a P-2 (3621-3689). To be correct this locomotive should have the plain white Gothic numbers and rectangular tender herald (the same as used on electric no. 5008, which is correct in being painted green).

My purpose is not to lambaste someone, but to act as a guide to prototypical procedure where I have expertise both as a model railroader of 60 years and a retired professional railroader after 45 years of service.

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No doubt I have been more severe in my criticism of "A town between tunnels" because the dioramas are supposed to represent specific locations at a particular time. Historical accuracy is therefore much more important than it would be if the dioramas were intended only to give the "flavor" of the B&M or the area. — *Donald Robinson, North Billerica, Mass.*

[Hey, Donald, based on the few discrepancies you found, I'd say the fellows at North Adams did very well indeed! — *Jim Kelly*]

L&N a hit: Thanks for a great September issue. The feature on Rick Rideout's L&N Henderson Subdivision was outstanding. Having had the opportunity to operate this HO model railroad myself, I can attest to the magic this man has performed in his basement.

I hesitate to call this a layout. In my opinion, it's an operating miniature railroad. Congratulations to Rick on his article and a truly amazing railroad. I look forward to updates in the future. — *Tommy Davis, Ardmore, Tenn.*

Editing videos: In response to Peter Kruimer's letter in the November MR regarding railfan videos not showing trains in their entirety, I must say that I agree with Mr. Kelly's observation that most of these programs do indeed

have a tendency to "drag on and on." Mr. Kruimer's point is valid, however, in that there is significance from a modeler's or railfan's perspective in discovering the subtleties that make up a particular consist.

As a model railroader and a video producer, I can safely suggest that the producers of these programs are attempting to arrive at a happy medium. As any video professional knows, a shot held too long is a boring shot. Hence, the producers are simply driven to maintain and follow what's accepted as established editing technique (ask Allen Keller).

This style may be frustrating to the hard-core dedicated railfan, but to the average modeler/railfan individual — who probably makes up the core of the market — it's the accepted and expected standard.

Since the average professionally produced railfan video has a budget falling within the \$10,000 to \$25,000 range (or more), producers are motivated to make them as interesting as possible, a process that usually requires adhering to standard film-style editing technique. — *Mark McDevitt, Newberg, Ore.*

Part of the success: As I read the article in the October MR concerning Jim Kelly's tour of the Samhongsang operation, I couldn't help but think back to the last time I saw Korea in 1953.

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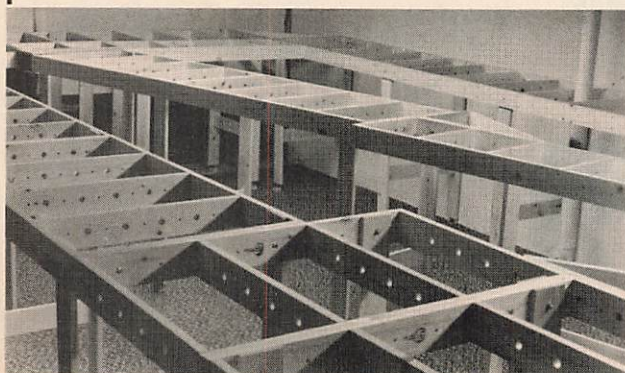
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I was a combat infantryman in Korea during 1952-53. Remembering the total destruction of that country and Seoul in particular at that time, and comparing it to the beautiful plant and success story of Samhonsa today is amazing. I'm proud to have several of their models.

The thought of a 90-mph interurban streamliner as pictured on page 110 just makes me shake my head in disbelief when you consider that our transportation to the front lines was on ancient coaches pulled by ex-Erie RR Pacifics. One thing that apparently has not changed is the food, as I can recall the smell of cabbage and garlic coming from the mud huts of the Korean farmers as we would pass by.

I wish Samhonsa continued success and hope they won't mind if I and the other Korean War vets feel that we had some small part in their success. — *Bob McColloch, Wheeling, W. Va.*

Let's lighten up: I'm writing this letter to admonish some of your readers. America is a great melting pot of cultures — different people, different backgrounds, different beliefs. Even with our differences, though, we're all Americans, and most of us would fight to preserve our neighbor's rights. So why can't we carry this over to model railroading?

Something new and different comes into the hobby, and right away there's

a group who opposes it (like those who disapproved of Kato's Unitrack, saying it wasn't prototypical). Then there are groups who oppose each other for what they're doing (free-lancers and prototype modelers). Come on folks! This is a big hobby, and there's a place for all of us!

Let's look at some of the issues raised in the past 12 months of MODEL RAILROADER. Unitrack is there for someone who doesn't want the time and trouble of messing with ballast. As the "Especially for beginners" series has shown, it's a great way for beginners (new people with new ideas) to get into the hobby with a decent-looking layout.

Prototype modelers have given themselves an incredible challenge of making their models exactly like the real world. That's how they get satisfaction from their hobby. Free-lancers get as much satisfaction from their aspect of the hobby as anyone else — they just conform to their own standard.

You take what you want from the hobby, and I'll take what I want. But I don't throw out MR because there's an article that doesn't interest me. I don't think newcomers do either. Maybe later (like I've done a few times), they'll come back to the article and be inspired to try something new. Thus they grow, their interest grows, and the hobby grows. — *Tim Petrishen, U. S. Air Force Academy, Colorado Springs, Colo.*

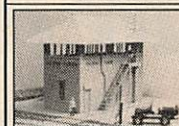
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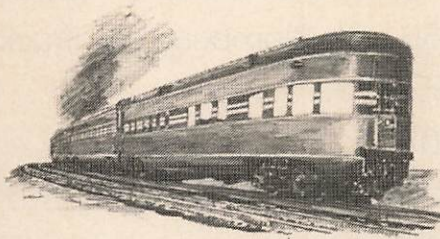
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IN THE FEBRUARY ISSUE



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Photo: Bill Vollheim

- Lionel's 1949 New York showroom layout
- Interview with Bob Sherman, Lionel catalog illustrator and showroom layout designer
- David Dansky's prewar tinplate collection
- Camouflaging Flyer switch machines
- Other views of the nostalgia market
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| Drive System for Athearn EMD GP50 with Blomberg "M" Trucks . . . | OMI #5359 |
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Recycling sprues: Sprues! Yep, I know 'em well. Steven Suh's letter in the October 1991 MR was well intentioned and pointed out a larger concern that we should be aware of — solid waste disposal. But in the overall picture, plastic model sprues hardly contribute at all when compared, to, say, cosmetics packaging or liquid soap containers. It's unfortunate that so little of this material can be used as reground. That form of recycling would be the ultimate solution.

I haven't thrown away many sprues over the past few years due to a personal campaign to find uses for them instead. Many of my sprues have ended up as piping for my petroleum plant and tank farm. Take a look at one of these prototypes, and you'll realize that we could never model them pipe for pipe. By carefully heating the sprue material it can easily be bent in any needed shape. Using a bit more heat allows the sprue to be stretched (drawn) to a finer diameter for thinner piping as needed.

Since most sprues have long, straight runs and at least two "clean" sides, they can be used as under-roof or floor bracing in structure kits, corner bracing too, of course.

Painted in rust colors and dumped in a gondola, sprues become scrap pipe and rod. Glued to screening, they become pipe frames for hurricane fencing. And trimmed of those bumps and lumps,

bent and attached to the outer corners of structures, sprues become downspouts. — *Jerry Gomber, Woodridge, N. J.*

More on sprues: Yes, sprues can be recycled. How about on a layout? Over the years I've used sprues for practically anything that needs a round shape. They can be used for poles, posts, trestle bents, pipe loads, tree trunks, etc. For simulated wood, just scrape them with a razor saw's teeth and paint. Sprues also make great paint stirrers. — *Fred Buike, Mount Clemens, Mich.*

Still useful after all these years: Last week an officer of the Fairfax County Police Department came to my office with a grocery bag of modeling magazines from the 1950-60 era. To say the least, this was comparable to discovering the contents of King Tut's tomb.

I've been poring over these back issues of *MODEL RAILROADER* with great delight. To my surprise, I came upon an article from April 1956 that provided me with information I needed on how to assemble valve gear. In the same issue I found an article on boxcab diesels, which helped me with the one I'm building.

You should take great pride in knowing that 35 years ago your product was as helpful and informative as it is today. — *C. David Litzenburg, Herndon, Va.*

More Railway Post Office on page 26b

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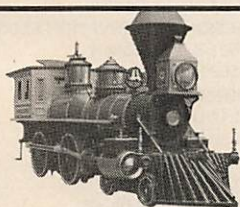
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CABOOSE INDUSTRIES (Cont.)

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|------------------------|--------|
| #204 Switch Stand..... | \$3.39 |
| #206 Ground Throw..... | 1.79 |
| #210 Ground Throw..... | 2.29 |

CIRCUITRON

| | |
|------------------------------|---------|
| Tortoise Switch Machine..... | \$10.99 |
|------------------------------|---------|

CON-COR LOCOMOTIVES - HO

| | |
|------------|---------|
| GP-38..... | \$47.99 |
| GP-40..... | 47.99 |
| SD-24..... | 47.99 |
| SD-35..... | 47.99 |

DESIGN PRESERVATION BLDGS. HO

| | |
|---------------------------------|--------|
| #101 Kelly's Saloon..... | \$4.69 |
| #102 Robert's Dry Goods..... | 4.69 |
| #103 Cutting's Scissor Co..... | 5.29 |
| #104 B. Moore Showroom..... | 5.29 |
| #105 Skip's Chicken & Ribs..... | 4.39 |
| #106 Laube's Linen Mil..... | 5.29 |
| #107 Freight Depot..... | 5.29 |
| #108 Goodfellows Hall..... | 5.19 |
| #109 Townhouse #1..... | 4.49 |
| #110 Townhouse #2..... | 4.49 |
| #111 Townhouse #3..... | 4.49 |
| #112 City Cab Co..... | 5.19 |
| #113 Carol's Corner Cafe..... | 4.99 |
| #114 Townhouse Flats..... | 4.39 |
| #201 Shultz Garage..... | 5.19 |
| #202 Pet Shop..... | 5.19 |
| #203 Packaging House..... | 6.49 |
| #204 Walker Building..... | 6.49 |

DESIGN PRESERVATION BLDGS - N

| | |
|--------------------------|--------|
| #501 Bruce's Bakery..... | \$5.25 |
| #502 Hayes Hardware..... | 5.25 |

DREMEL TOOLS

| | |
|-------------------------------------|---------|
| #212 Drill Press..... | \$34.99 |
| #230 Router Attachment..... | 21.99 |
| #290 Electric Engraver..... | 16.99 |
| #580 4" Table Saw..... | 136.99 |
| #730 Disc-Belt Sander..... | 104.99 |
| #1571 Moto Shop Scroll Saw..... | 89.99 |
| #1671 16" Scroll Saw 2-Speed..... | 179.99 |
| #2750 Single Speed Moto-Tool..... | 48.99 |
| #2850 2-Speed Moto-Tool..... | 62.99 |
| #3950 Variable Speed Moto-Tool..... | 69.99 |

FLOQUIL PAINTS

| | |
|------------------------------------|--------|
| Railroad Colors: 1 oz. Bottle..... | \$1.49 |
| Railroad Colors: 5 oz. Spray..... | 3.79 |

IHC CARNIVAL SERIES - HO

| | |
|-----------------------------------|--------|
| 5110 Ferris Wheel..... | \$6.89 |
| 5111 Carousel..... | 9.99 |
| 5112 Skywheel..... | 9.99 |
| 5113 Swinger..... | 9.99 |
| 5115 Carnival Motorizing Kit..... | 3.79 |
| 5119 Thunderbolt..... | 12.99 |
| 5121 Arcade Series 1..... | 10.39 |
| 5122 Arcade Series 2..... | 10.39 |

KADEE - HO

| | |
|--------------------------------|--------|
| 236 Wheel Cleaner..... | \$6.49 |
| 308 Uncoupler..... | 2.75 |
| 321 Uncoupler..... | 2.99 |
| #5 Couplers (2 pair)..... | 1.69 |
| #7 Couplers..... | 2.20 |
| #26 Couplers (2 pair)..... | 2.70 |
| #27 Couplers (2 pair)..... | 2.70 |
| #28 Couplers (2 pair)..... | 2.70 |
| #205 Coupler Height Gauge..... | 2.79 |

MICRO-TRAINS LINE - N SCALE

| | |
|---------------------------------------|--------|
| #1000 Bettendorf Trucks..... | \$2.69 |
| #1023 Couplers With Dr. Gear..... | 3.39 |
| #1030 Roller Bearing Trucks..... | 2.69 |
| #1033 Roller Bearing w/Ext. Cplr..... | 2.89 |
| #1128 Couplers (Short) "T" Shank..... | 3.39 |
| #1129 Couplers (Med.) "T" Shank..... | 3.19 |
| #1130 Couplers (Long) "T" Shank..... | 3.19 |
| #1310 Permanent Magnet..... | 3.39 |

LIFE-LIKE - HO

Proto 2000 BL-2.....\$43.99

LIONEL ENGINES

#18303 Amtrak GG-1 Elec.....\$399.99
 #18405 SF "Burro" Crane.....106.99
 #18406 Truck Maintenance Car \$84.99
 #18410 Penn. Burro Crane.....\$112.99
 #18501 W. Maryland Switcher.....229.99
 #18609 Northern Pacific 2-6-4.....179.99
 #18807 Lehigh Valley RS-3.....113.99

LIONEL 027 TRACK

#5024 35" Straight Track.....\$2.29
 #5033 Curved Track.....70
 #5038 Straight Track.....70
 #5149 Remote Uncoupler Track.....5.79

LIONEL 027 SWITCHES & CROSSING

#5021 Manual Switch Left.....\$13.99
 #5022 Manual Switch Right.....13.99
 #5023 45" Crossing.....5.99
 #5121 LH Remote Switch.....16.99
 #5122 RH Remote Switch.....16.99
 #5167 LH Remote Switch.....25.99
 #5168 RH Remote Switch.....25.99

LIONEL MAINT./SERVICE ITEMS

#2905 Lock On With Wire.....\$2.69
 #2909 Smoke Fluid.....3.39
 #2927 Lube & Maintenance Kit.....8.99
 #2985 Lionel Train Book.....9.99

MANTUA LOCOMOTIVES - HO

Series 306 2-6-2 Prairie.....\$57.99
 Series 311 4-6-2 Pacific.....62.99
 Series 312 2-8-2 Mikado.....72.99
 Series 316 4-6-4 Hudson.....67.99
 Series 317 4-8-4 Berkshire.....67.99
 Series 340 4-6-2 Pacific.....67.99
 Series 341 2-8-2 Mikado.....72.99
 Series 352 2-6-6-2 Art. Logger.....95.99
 Series 354 4-6-2 Pacific.....72.99
 Series 355 2-8-2 Mikado.....73.99
 Series 356 4-6-4 Hudson.....73.99
 Series 357 4-4-2 Atlantic.....82.99
 Series 414 GP-20.....27.99

MIDWEST ROADBED

HO Cork Roadbed, 36", 25 pcs. \$13.99
 Nga Cork Roadbed 36", 25 pcs. 9.99

MINI TRIX LOCOMOTIVES - N SCALE

Fairbanks Morse.....\$27.99
 F-9A.....34.99
 K-4 Pacific 4-6-2.....53.99
 2-10-0 Decapod.....53.99
 U-28-C.....36.99

MODEL POWER BUILDINGS - HO

404 Small Freight Station.....\$5.99
 405 Assayer's Office.....4.39
 408 Trackside Maintenance Set.....6.69
 409 Fire House.....9.29
 410 Coaling Station.....9.29
 411 Interstate Freight.....7.99
 414 Billy's Auto Body.....7.99
 424 Rail Crane.....4.99
 425 House With Garage.....7.99
 426 Rooming House.....9.29
 428 Water Tank With Shed.....8.39
 429 Mercedes Car Agency.....10.69
 433 Farm House.....9.69
 441 Bob's Hot Dog Stand.....5.99
 442 Real Estate Office.....5.99
 443 Railroad Power Station.....4.39
 444 Whistle Stop.....4.99
 447 43rd. Precinct.....12.99
 449 Building on Fire.....10.69
 451 Budweiser Brewery.....10.69
 452 Western Union Office.....10.69
 453 Blue Coal Depot.....10.69
 454 Chester Station.....9.29
 455 Burlington Mills.....9.29
 456 Delta Fraternity Hall.....9.29
 462 Jimmy's Barber Shop.....9.29
 463 George's Grocery.....9.29

MODEL POWER BLDGS. - HO (CONT.)

461 Ace Hardware.....\$9.29
 462 Jimmy's Barber Shop.....9.29
 463 George's Grocery.....9.29
 465 Heinz Pickle Factory.....12.69
 470 IRS Office on Fire.....23.99
 471 Nick's Pickles.....9.29
 472 Baldy's Barber Shop.....9.29
 473 Pete's Meats.....9.29
 474 Sneed's Feed & Tools.....8.39
 475 Jan's Ice Cream Parlor.....9.29
 477 Globe News & Printing.....9.29
 478 2 Station Platforms.....9.29
 479 2 Cape Cod Houses.....9.29
 480 2-Story RR Station.....9.29
 481 Interlocking Tower.....6.99
 482 Church.....9.69
 483 Bobby's Garage.....9.69
 542 Port Chester RR Station.....11.59
 566 Platform.....5.99
 567 Warehouse.....5.59
 571 Cafe.....5.99
 604 Little Red School House.....6.49
 605 Silverado Station.....9.29
 606 Modern House.....6.99

MODEL POWER BLDGS. - N SCALE

1501 Erie RR Station.....\$6.99
 1502 3 Suburban Houses.....6.99
 1506 Blue Coal Depot.....6.49
 1507 Fences, Barrels, Lumber.....5.79
 1508 Station Platforms.....6.49
 1509 Budweiser Brewery Kit.....6.99
 1510 Star Journal Building.....6.49
 1511 Fire House With Engine.....6.49
 1512 Railroad Hotel.....6.49
 1513 Farmhouse.....6.99
 1514 2-Story Building.....9.29
 1515 3 Trackside Buildings.....9.29
 1517 Barn & Chicken Coop.....9.29
 1518 Stone Unloading Station.....6.49
 1519 Freight Depot.....6.49
 1522 Gantry Crane Kit.....4.99
 1523 Saw Mill.....6.49
 1524 Malden Station.....6.49
 1525 Baldwin Loco Works - Fire.....11.29
 1533 YMCA Building.....6.49
 1534 Hardware & Supermart.....6.49
 1535 Restaurant.....6.49
 1536 Joe's Corner.....6.49
 1537 Movie Theater.....6.49
 1538 Al's Deli.....6.49
 1539 Post Office & Bank.....6.49
 1540 Apartment House.....6.49
 1542 Remco Building Cleaned.....6.49
 1543 Rite Aid Drugs.....6.49
 1547 US Customs Warehouse.....6.49
 1549 Modern Truck Depot.....6.49
 1550 Twin Diesel Loco Shed.....10.99
 7311 Coaling Station.....3.99
 7404 Shell Gas.....3.99

MODEL POWER LOCO. - HO

Alco 1000, RS-2 (each).....\$10.99
 USRA Light Pacific.....35.99
 F-3, SW-1 (each).....11.99
 GP-9, C-430, RS-11 (each).....12.99
 Shark Nose A With B Dummy.....39.99

MODEL POWER LOCO. - N SCALE

FA-2.....\$14.99
 F-40PH.....16.99
 GP-40.....15.99

MRC POWER PACKS

1400 Tech II.....\$26.99
 1500 Tech II.....31.99
 2400 Tech II.....30.99
 2500 Tech II.....38.99
 2800 Tech II Dual Pack.....41.99
 Tech III 19VA.....49.99
 Tech III 30VA.....61.99
 Train Power 027.....49.99
 Sound N Power 7000.....94.99

OVERLAND MODELS**"CHASSIS" ONLY - HO SCALE**

Athearn #5355 SW-1500 with
 Flexicoils Trucks.....\$61.99
 Athearn #5356 SW-1000,
 SW-1500 w/AAR Trucks 61.99
 Athearn #5357 GP-38-2.....61.99
 Athearn #5358 GP-40-2.....61.99
 Athearn #5359 GP-50.....61.99
 Athearn #5367 SD-40-2.....64.99
 Rail Power #5366 Dash 8-40B.....64.99

PECO SWITCHES - HO

SL-91 Small Radius Right Hand.....\$8.99
 SL-92 Small Radius Left Hand.....8.99
 SL-95 Medium Radius R. Hand.....9.99
 SL-96 Medium Radius Left Hand.....9.99
 SL-88 Large Radius Right Hand.....11.49
 SL-89 Large Radius Left Hand.....11.49
 PL-10 Switch Machine.....4.39

PROEDGE TOOLS

#11 Blades (100 Blades).....\$11.99
 #2 Knife Medium Duty.....1.89
 #5 Knife Heavy Duty.....2.49
 DeLuxe RR Tool Chest.....26.99
 6 Assorted Needle Files.....9.59
 Portable Handy Vise.....6.69
 Extra Hands - Single.....8.99
 Extra Hands - Double.....11.99
 Mitre Box With Saw & Handle.....8.99
 Drill Index - 20 Drills.....19.99
 #11 Blades (5 Blades)......85
 #1 Knife w/#11 Blade.....1.09

RAIL POWER PRODUCTS - HO**Body Shells Only**

B23-7.....\$10.99
 B40-8 With Frame.....25.99
 CF-7 Round Cab.....10.99
 CF-7 Angle Cab.....10.99
 C30-7.....10.99
 C32-8.....9.79
 SD-45.....10.99
 SD-60.....10.99

SHINOHARA CODE 70 TRACK - HO

#301 #4 LH Turnout.....\$8.99
 #302 #4 RH Turnout.....8.99
 #303 #6 LH Turnout.....9.49
 #304 #6 RH Turnout.....9.49
 #305 #8 LH Turnout.....10.79
 #306 #8 RH Turnout.....10.79
 #307 Wye Turnout.....9.49
 #308 #6 3-Way Turnout.....20.89
 #315 Flex Track 10 ea. Minimum.....3.99
 #360 #6 LH Curved Turnout.....18.49
 #361 #6 RH Curved Turnout.....18.49
 #362 #8 LH Curved Turnout.....18.49
 #363 #8 RH Curved Turnout.....18.49

SHINOHARA CODE 100 TRACK - HO

#101 #4 LH Turnout.....\$8.99
 #102 #4 RH Turnout.....8.99
 #103 #6 LH Turnout.....9.99
 #104 #6 RH Turnout.....9.99
 #105 #8 LH Turnout.....10.89
 #106 #8 RH Turnout.....10.89
 #107 #4 Wye Turnout.....9.99
 #108 #6 3-Way Turnout.....20.89
 #115 Flex Track 10 ea. Minimum.....3.89
 #161 #6 LH Curved Turnout.....14.99
 #162 #6 RH Curved Turnout.....14.99
 #163 #8 LH Curved Turnout.....18.99
 #164 #8 RH Curved Turnout.....18.99

STEWART LOCOMOTIVES - HO

U25B.....\$38.99
 U25B Phase IV.....46.99

WALTHERS CODE 83 TRACK - HO

#803 #6 Left Turnout.....\$9.39
 #804 #6 Right Turnout.....9.39
 #805 #8 Left Turnout.....10.69
 #806 #8 Right Turnout.....10.69
 #815 39" Flex, 10 ea. Minimum.....3.99

WALTHERS CD. 83 TRK. - HO (Cont.)

#828 #8 Curved Left Turnout.....\$16.59
 #829 #8 Curved Right Turnout.....16.59
 #891 #5 Left Turnout.....9.39
 #892 #5 Right Turnout.....9.39
 #894 #7 Curved Left Turnout.....16.59
 #895 #7 Curved Right Turnout.....16.59

WALTHERS CORNERSTONE - HO

3006 Interstate Fuel & Oil.....\$19.99
 3007 2-Store Engine House.....19.99
 3008 American Millwork.....19.99
 3009 Water St. Freight Terminal.....19.99

WOODLAND SCENICS

Small Trees.....\$3.29
 Large Trees.....5.99
 Foliage.....1.99
 Foliage Clusters.....2.99
 Small Turf.....1.69
 Large Turf.....3.29
 Grass.....1.49
 Poly Fiber.....1.29
 Small Lichen.....2.99
 Large Mixed Lichen.....5.99
 Ballast.....1.69
 #191 Scenic Cement.....3.79
 #192 Scenic Sprayer.....2.69
 #193 Scenic Sifter.....2.19

FUTURE RELEASE ITEMS**Athearn - HO**

Budd R.D.C.1 Rail Diesel Car: NH,
 Undec., ATSF, B&O Powered.....13.99
 Dummy.....7.99
 Budd R.D.C.3 Rail Diesel Car: NH,
 Undec., ATSF, B&O Powered.....13.99
 Dummy.....7.99

Atlas - HO

Alco RS-3.....N/A
 Alco RSD-4/5.....N/A
 Alco RS-11.....N/A

Bachmann Plus - HO

B-23-7: Undecorated, UP,
 SF, CR, Chessie.....\$26.99

Bachmann-Spectrum - Nga

Dash 8-40C.....\$29.99

Kato - Nga

EMD F-7.....N/A

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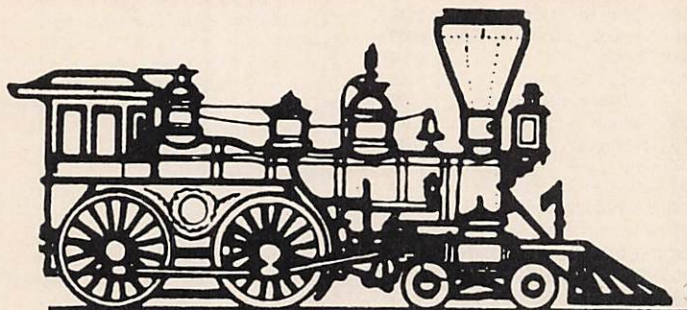
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Dec 14 & 15, 1991 - Veterans Memorial Auditorium
833 Fifth Avenue, Des Moines, Iowa

PHOENIX

Dec 14 & 15, 1991 - Phoenix Civic Plaza
225 East Adams Street, Phoenix, Arizona

ORLANDO

Dec 21 & 22, 1991 - Central Florida Fair
4603 West Colonial Drive, Orlando, Florida

HOUSTON

Jan 4 & 5, 1992 - George R. Brown Center
1001 Convention Center Blvd., Houston, Texas

TULSA

Jan 11 & 12, 1992 - Tulsa Convention Center
100 Civic Center, Tulsa, Oklahoma

ST. LOUIS

Jan 18 & 19, 1992 - Cervantes-St. Louis Convention Ctr.
801 Convention Plaza, St. Louis, Missouri

SAN DIEGO

Jan 25 & 26, 1992 - San Diego Concourse
202 C Street, San Diego, California

NASHVILLE

Jan 25 & 26, 1992 - Nashville Municipal Auditorium
417 4th Avenue North, Nashville, Tennessee

INDIANAPOLIS

Feb 1 & 2, 1992 - Indiana State Fairgrounds
1202 East 38th Street, Indianapolis, Indiana

PORTLAND

Feb 1 & 2, 1992 - Multnomah County Expo Center
2060 North Marine Drive, Portland, Oregon

LOS ANGELES

Feb 8 & 9, 1992 - L.A. County Fair & Expo Complex
White Avenue & McKinley Avenue, Pomona, California

CINCINNATI

Feb 8 & 9, 1992 - Cincinnati Convention Center
6th & Elm Streets, Cincinnati, Ohio

SAN FRANCISCO

Feb 15 & 16, 1992 - Cow Palace
Geneva & Santos, Daly City, California

KANSAS CITY

Feb 22 & 23, 1992 - Kansas City Municipal Auditorium
14th & Central Avenue, Kansas City, Missouri

DENVER

Feb 29 & Mar 1, 1992 - National Western Stock & Rodeo
4655 Humbolt Street, Denver, Colorado

FORT WORTH

Mar 7 & 8, 1992 - Ft. Worth/Tarrant County Con. Ctr.
1111 Houston Street, Ft. Worth, Texas

DAYTON

Mar 14 & 15, 1992 - Dayton Convention Center
22 East Fifth Street, Dayton, Ohio

LOUISVILLE

Mar 21 & 22, 1992 - Commonwealth Convention Center
221 Fourth Avenue, Louisville, Kentucky

COLUMBUS

Mar 28 & 29, 1992 - Franklin County Veterans Memorial
300 West Broad Street, Columbus, Ohio

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Information on any event, contact GATS Limited: 708/834-0652

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 1992 WALTER'S HO CATALOG \$33.30 #4, 6, 7, 8, 9, 16, 170 to #413
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 Test Kit \$8.70; #505 or #508 pass. coup. 5/10/50; #26, 27, 28 Plastic
 \$2.00ea; #205 Hgt Gage \$2.75; #321 Mag. 5/31/50; #308 Under Tie Mag.
 5/31/95; #307 Electro. \$5.65; Belt, Archbar, Archbar Trucks w/o coupler
 \$3.65pr; w/coupler \$5.39pr; Wheels 33" Spkg \$23.00; 36" Spkg \$29.00

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 Switches \$6.60, New Customline II NS TO WYE, #4; #6 Black \$4.95 All Cross-
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ATLAS/KATO RS-3 RSD 4/5, RS-11 new names, same great quality. RS-11
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 \$11.50, Thunderbolt \$14.00; Motor Unit \$2.49; FALLER Octopus w/motor &
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 \$105.00; Ferris wheel only \$54.00; Swing Bobs w/motor or Jupiter w/motor
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 SF, CN, weighs over one pound, all wheel drive & elec. pick-up, 72.95
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GP38 Undec, BN, IC, R, SOO, or GP40 Undec. SP, SF, UP, CN, CSX, \$39.95
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 \$62.95; Goat 0-4-0 \$49.95; Pacific w/Vandy \$62.95; Camelback w/Vandy \$65.95;
 4-6-2 Camelback \$60.95; Berkshire \$66.95; Little Six \$46.95; Prairie \$46.80;
 N&W PD \$70.95; DIESELS Plymouth \$20.95; Dympr \$23.00
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 up SD60/C30-7/C32-8 \$59.95, B&O/C37 \$55.99, GP40 \$34.95

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 Zephyr \$55.95, Pwrd A \$35.95, Dummy A or B \$19.95, GPN Coast Rider Bt SP
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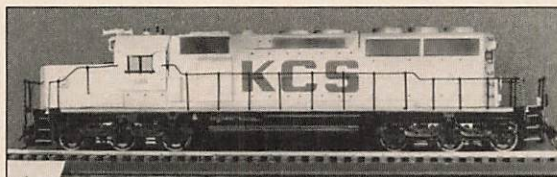
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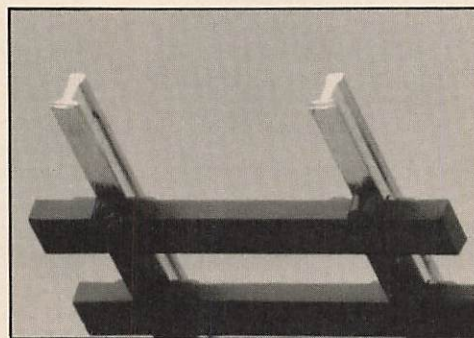
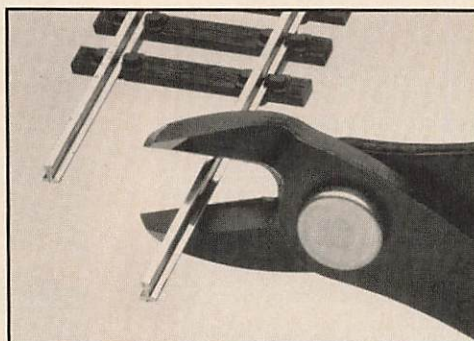
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More Railway Post Office from page 23

Tony a traitor? The October Trains of Thought really worried me. Having great respect for Tony Koester, how could he consider modeling the "S" word era?

No, not Tony, I thought. This must be the start of one of his thought-provoking ideas that will have a happy ending. Imagine my dismay when I looked at the November Trackside Photos. At first I thought, what a great idea, he's running a fan trip on his system. Reading the caption, the horrible truth struck me a body blow. Tony Koester, a bastion of the modern diesel era, has defected.

Tony, we still love you; but please come back. As for Allen McClland, David Barrow, Eric Brooman, and the rest of you true believers, take heed. It could happen to you. Oh yeah, I wonder if Tony would care to sell me any of his diesels. I bet they're going for bargain basement prices. — *Chuck Shaffer, Olean, N. Y.*

Railroad romance: My husband has been a railroad modeler for about 6 years. It started out innocently enough with Marshall's childhood oval track around the Christmas tree. Now, with ideas and inspiration from MR and his own imagination, this childhood toy has become a fascinating hobby for both of us.

If I ever had any doubts about being a modeler's widow, they were dispelled on our anniversary. The HO New York Central passenger train moving through Davisville had the words "Happy 10th Wedding Anniversary" taped to the side. Bringing up the rear on a depressed flat-car was an emerald and diamond ring!

To all you purists out there, what this lacked in authenticity it made up for in romance! Thanks again for ideas and dreams that will last a lifetime. — *Martha Davis, Louisville, Ky.*

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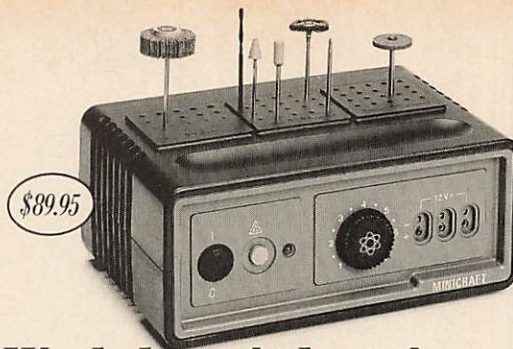
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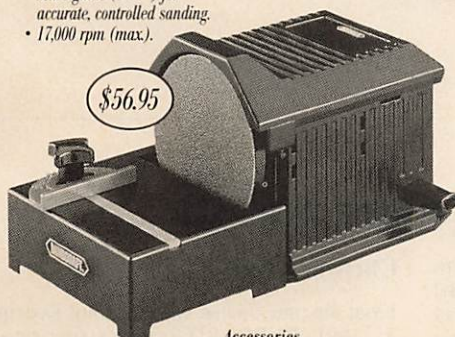


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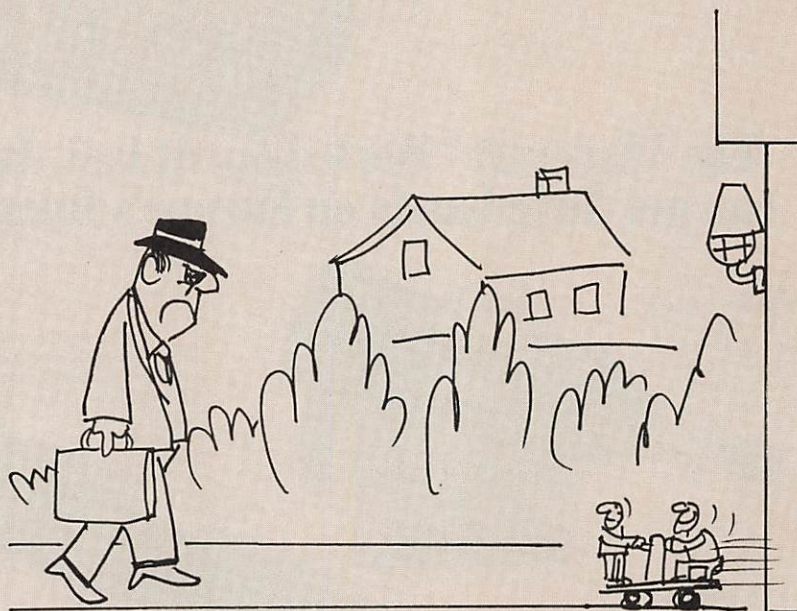
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The ONBOARD LOCOMOTIVE SOUND & CONTROL SYSTEM is a twenty channel electronic control system that provides precise and reliable control of your locomotives, along with high quality sound. The operating principle of the system is similar to telephone "touch tone" dialing, and utilizes tones generated digitally from a highly accurate and stable quartz crystal controlled oscillator. Miniature throttles mounted in your locomotives control motor speed, while sound is generated onboard by compact synthesizers. Speed memory is built into the throttles, so you can unplug the handheld controller and change locations while the locomotive continues to run at constant speed. For large or outdoor railroads, a radio link is available.

Ten years of progress:

When it was introduced in 1979, the ONBOARD System was the first to offer both independent locomotive control and sound effects. It had ten channels, the throttles were 0.5" thick and 3.0" long, and the sound units were battery powered.

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Phone, (408) 395-3424

26d JANUARY 1992

By 1982, the system had been expanded to twenty channels, and the very popular model K220 keypad (usable in all twenty channels) had been brought into production. A way of running sound units off of track power had been developed, eliminating the hassle of battery installation and charging.

By 1984, reverb units had been developed for use with the sound synthesizers, greatly enhancing the sound quality. Also, a complete signal control system had been introduced.

By 1986, the system had been expanded to provide power for all the model scales, including tiny throttles for use in HO and LGB units for use with LGB equipment.

In 1988, Surface Mount Technology (SMT) was used for the first time in an ONBOARD product. This made the model T1 throttle only 0.3" x 0.66" x 1.8", representing a 70% reduction from the 1979 version.

What can you expect in the 1990's? You can be sure that we will strive to make locomotive-mounted equipment smaller, through the expanded use of SMT and other new technology. You can count on us bringing out a computer interface (RS 232) that will allow you to partially or fully automate your operations as accessories. And, generally, you can expect us to continue to keep the ONBOARD System up-to-date and significantly ahead of its competitors.

Christmas sale:

From the time this ad appears, until December 31, 1991, ONBOARD System starter sets are on sale at substantial savings. The sets include a heavy duty transformer, a 5 Ampere power supply complete with faceplate, ammeter, status indicator lamps, and warning buzzer; a model K116 handheld controller; two model T1 throttles built with SMT; and a thorough, 89 page System Manual. The sale price of the starter set is \$365, compared to the regular price of \$416. We hope this helps you to get started with ONBOARD, perhaps with an assist from Santa Claus.

Starter sets, and other ONBOARD System components, are available through the dealers listed below. If there is no dealer in your vicinity, you may order direct by phone or mail.



Schedules



Notices of model railroading events are published at no charge. Information must be in our offices 90 days before the event. To be included notices must be typed or printed, double-spaced, and in this format:

1. State 2. City 3. Sponsoring organization and name of the event, meet, show, auction, or open house. 4. Date 5. Location 6. Time 7. Fees 8. Name, address, and telephone number of the person to contact for information 9. Signature, address, and telephone number of the person sending information.

Please address this to "Schedules," MODEL RAILROADER Magazine, 21027 Crossroads Circle, P. O. Box 1612, Waukeasha, WI 53187. Inquiries to event sponsors should include a stamped, self-addressed envelope.

ALABAMA

Birmingham: Smokey City Rails Model Railroad Club Train Day—Feb. 29. Fraternal Order of Police Lodge 1, 2275 Green Springs Hwy. 10 a.m. to 4 p.m. \$2; 6 through 12, \$1; under 6 free. Box 94606, 35220; Steve Bozarth, 205-972-7859; or John McPherson, 956-4959 eve.

ARIZONA

Tucson: Toy Train Operating Society Gadsden Pacific Div. Swap Meet—Jan. 18. Foothills Mall, Ina and LaCholla Blvd. 10 a.m. to 4 p.m. \$1; under 12 free. Ken Kelley, 4925 Calle Faja, 85718; 602-299-3243.

CALIFORNIA

Atwater: NMRA Pacific Coast Region/Merced Model Railroad Society Meet—Feb. 8. Castle Air Museum. 9 a.m. to 3:30 p.m. \$2.50. Bart McLellan, 620 Klamath Dr., 95301; 209-358-1129.

Daly City: Great American Train Show—Feb. 15, 16. Cow Palace, Geneva and Santos. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Pomona: Great American Train Show—Feb. 8, 9. Los Angeles County Fair and Expo Complex. White and McKinley Aves. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Redlands: Inland Empire Train Collectors Assn. and Roundhouse Gang Model Railroad Club Swap Meet—Feb. 22. Cope Jr. High School, 1000 Cypress Ave. 8 a.m. to noon. \$2. Jim Haynes, 714-792-6657 or Dick Schleiger, 798-0412.

San Bernardino: Sierra Pacific Model Railroad Society Open House—Jan. 4, 5, 11, 12, 18, 19, 25, 26. 2007 N. Lugo Ave. Sat. 7 to 9 p.m.; Sun. noon to 4 p.m. \$1. Brad Pesheck, same address, 92404; 714-881-4898.

San Diego: Great American Train Show—Jan. 25, 26. San Diego Convention and Performing Arts Center, 202 C St. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

San Diego: San Diego Model Railroad Museum Operating Exhibit/Show—Jan. 2-5, 7-12, 15-19, 22-26, 29-31, Feb. 1, 2, 4-9, 12-16, 19-23, 26-29. Casa de Balboa, Balboa Park, 1649 El Prado. Weekdays 11 a.m. to 4 p.m.; weekends 11 a.m. to 5 p.m. \$1.50; children free. 619-696-0199.

San Francisco: Golden Gate Model Railroad Club Open House—Jan. 25, Feb. 29. Josephine D. Randall Jr. Museum, 199 Museum Way, off Roosevelt Way. Noon to 4 p.m. Free. Vernon H. Waight, 1711 Tenth Ave., 94122; 415-564-7760.

San Marcos: North County Modular Railroad Society Open House—Feb. 1, 2, 8, 9, 15, 16, 22, 23. 817 San Marcos Blvd. 11 a.m. to 5 p.m. Free. Richard Lee, 1077 Beaumont Cir., Vista 92084; 619-758-9795.

San Mateo: O Scale West Meet—Feb. 7, 8, 9. Dunfey Hotel. \$10. Box 50261, Palo Alto, 94303.

COLORADO

Denver: Great American Train Show—Feb. 29, Mar. 1. National Western Stock Show and Rodeo, 4655 Humboldt St. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Lakewood: Foothills Society of Model Railroaders Swap Meet—Jan. 18. Christ on the Mountain Church, 13922 W. Utah Ave. 9 a.m. to noon. \$2. Maynard Rorman, Box 150245, 80215; 303-985-4362 or 986-3055.

CONNECTICUT

East Hartford: East Hartford Train Meet—Feb. 1. St. Christopher School, 570 Brewer St. 9 a.m. to 2 p.m. \$3; family \$5. Mike Fiereck, 263 Woodmont Dr., 06118; 203-569-2423.

Wallington: New York, New Haven and Hartford Toy and Train Meet—Jan. 19, Feb. 16. Zandri's Stillwood Inn, 1074 S. Colony Rd. 9 a.m. to 2 p.m. \$4. Mike Martino, Box 9131, New Haven 06532; 203-469-9048.

DELAWARE

Delmar: Delmarva Model Railroad Club Open House—Jan. 12, 103 E. State St., 2nd flr. Sat. 11 a.m. to 5 p.m.; Sun. 1 to 5 p.m. Free. 301-749-7974.

FLORIDA

Bradenton: Sarasota Model Railroad Club Swap Meet—Jan. 19. Municipal Auditorium, 100 Tenth St. W. 10 a.m. to 2:30 p.m. \$3; teens \$1; children 25 cents. Don Freeman, 4821 Palm Aire Dr., Sarasota 34243; 813-355-8948, or Chuck Florida, 6810 Whitman Pl.; 756-7584.

Cape Coral: Florida Expo Swap Meet—Jan. 25. Cape Coral Moose Club. 9 a.m. to 5 p.m. \$2; under 13 free. Gerald St. Pierre, 2516 S. E. 16 Pl., 33904; 813-574-3086.

Jacksonville: Greenberg's Great Train, Dollhouse, and Toy Show—Jan. 18, 19. Prime F. Osborn Convention Center, 1000 W. Water St. 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

More Schedules on page 32

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| 7070 | RS-3 | Undecorated | - |
| 8150 | RS-3 | Canadian Pacific | 8436 |
| 8151 | RS-3 | Canadian Pacific | 8441 |
| 8152 | RS-3 | Great Northern | 228 |
| 8153 | RS-3 | Great Northern | 232 |
| 8154 | RS-3 | New Haven | 537 |
| 8155 | RS-3 | New Haven | 560 |
| 8156 | RS-3 | Ontario Northland | 1301 |
| 8157 | RS-3 | Ontario Northland | 1306 |
| 8158 | RS-3 | Rock Island | 485 |
| 8159 | RS-3 | Rock Island | 472 |

Alco RSD 4/5's

| ITEM # | LOCO | ROADNAME | ROAD # |
|--------|---------|------------------|--------|
| 7080 | RSD-4/5 | Undecorated | - |
| 8170 | RSD-4/5 | Pennsylvania | 8446 |
| 8171 | RSD-4/5 | Pennsylvania | 8451 |
| 8172 | RSD-4/5 | Santa Fe | 2125 |
| 8173 | RSD-4/5 | Santa Fe | 2158 |
| 8174 | RSD-4/5 | Southern Pacific | 5294 |
| 8175 | RSD-4/5 | Southern Pacific | 5307 |

Alco RS-11's

| ITEM # | LOCO | ROADNAME | ROAD # |
|--------|-------|---------------------|--------|
| 8180 | RS-11 | Delaware & Hudson | 5001 |
| 8181 | RS-11 | Delaware & Hudson | 5005 |
| 8182 | RS-11 | Lehigh Valley | 7640 |
| 8183 | RS-11 | Lehigh Valley | 7643 |
| 8184 | RS-11 | Nickel Plate Rd. | 560 |
| 8185 | RS-11 | Nickel Plate Rd. | 562 |
| 8186 | RS-11 | Seaboard Coast Line | 1205 |
| 8187 | RS-11 | Seaboard Coast Line | 1208 |

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| L-11717 | CSX Freight Set | 269.95 |
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| L-18413 | Charlie Brown & Lucy Hand Car | 53.95* |

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| L-19810 | Bosco Operating Milk Car with Platform | 99.95 |
| L-19811 | Monon Brakeman Car | 59.95 |

CHRISTMAS CAR SPECIAL

| | | |
|---------|-----------------------------|-------|
| L-19913 | "O" Gauge Christmas Box Car | 25.95 |
|---------|-----------------------------|-------|

AMERICA'S LARGEST LIONEL DEALER



(ALL CLASSIC PRICES ARE NET)

"O" SCALE CLASSIC SETS

| | |
|----------------------------------|-------------|
| L-51001 #44 Electric Freight Set | SALE 495.00 |
| L-51004 Blue Comet Set | 929.95★ |

STANDARD GAUGE CLASSICS

| | |
|---|---------------|
| L-13001 #318 Freight Set | SALE 799.95 |
| L-13100 390E Loco and Tender | 495.00 |
| L-13400 Lionel Lines Baggage | All |
| L-13401 Lionel Lines Pullman | 3 Cars 495.00 |
| L-13402 Lionel Lines Observation | For |
| Complete Set for | SALE 925.00 |
| L-13101 1-384E Steam Loco & Tender | SALE 375.00 |
| L-13200 Searchlight Car | 144.00 |
| L-13300 Gondola | 102.00 |
| L-13600 Cattle Car | 120.00 |
| L-13700 Caboose | 138.00 |
| Complete Set for | SALE 749.95 |
| L-13103 Blue Comet Loco & Tender | |
| L-13108 Blue Comet Pass Cars (3 Cars) | 2499.95 |
| L-13104 Old #7 Locomotive | |
| L-13412 Old #7 Set of 3 Cars | 400.00 |
| Old #7 Set Above Plus Extra Set of L13412 - Loco and 6 Cars | 1750.00 |
| L-13107 1-408E Loco Brown | |
| L-13420 State Car Set (3 Cars) Brown | 2695.00★ |
| L-13108 Lionel Lines 2-400E Loco | 999.95★ |
| L-13108 200 Series Caboose | 184.95★ |
| L-13407 "Illinois" State Car (4th Car to Green State Set) | 588.00 |
| L-13601 1989 Season's Greeting | SALE 99.95 |
| L-13602 1990 Season's Greeting Car | SALE 155.95 |
| Both Above Season's Greeting Cars | 215.00 |
| L-13604 1991 Season's Greeting Car | 171.50 |
| L-13800 "1115" Station | SALE 195.00 |
| L-13802 Lionel Runabout | SALE 399.95 |
| L-13803 Auto Racing Set | 684.95 |
| L-13804 437 Tower | 239.95 |
| L-13805 #1-44 Boat | 474.95★ |
| L-13900 #200 Trolley (Powered) | 314.95 |
| L-13901 #201 Trolley Trailer | 79.95 |
| Both for | 389.95 |
| #200 Trolley and Two #201 Trailers | 469.95 |
| L-51900 #4400N Signal Bridge and Panel | 299.95 |

TOOL & BUNK CARS

| | |
|---|-------|
| L-19651 Santa Fe Tool Car | 34.95 |
| L-19652 Jersey Central Bunk Car | 29.50 |
| L-19653 Jersey Central Tool Car | 29.50 |
| SPECIAL-Both Jersey Central Cars | 39.95 |
| L-19654 Amtrak Bunk Car | 29.50 |
| L-19655 Amtrak Tool Car | 29.50 |
| L-19656 Milwaukee Bunk Car with Smoke | 52.50 |

PASSENGER CARS

| | |
|--|---------|
| L-16009 Pennsylvania Combine Car | 19.95 |
| L-16022 Pennsylvania Baggage Car | 22.75 |
| L-16031 Pennsylvania Dining Car | 25.95 |
| L-19107 Southern Pacific Full Vista Dome | 119.95★ |
| L-19108 Norfolk & Western Vista Dome | 119.95★ |

SUPER SPECIAL

| | |
|--------------------------------------|-------|
| L-16039 Northern Pacific Observation | 10.95 |
|--------------------------------------|-------|

WOODSIDE REEFERS

| | |
|----------------------------|--------|
| L-19508 Leonardo Davinci | 21.95 |
| L-19522 Guglielmo Marconi | 21.95★ |
| L-19523 Dr. Robert Goddard | 21.95★ |

SUPER SPECIAL—BELOW COST OLD GLORY SERIES

| | |
|---|-------|
| L-19599 Set of Three Refrigerator Cars Commemorating American History—Reg. | 62.50 |
| | 39.95 |

HOPPERS and GONDOLAS

| | |
|--|--------|
| L-19401 Great Northern Gondola with Coal Load and Sprung Metal Trucks | 29.95 |
| L-19309 Seaboard Covered Hopper | 21.50 |
| L-19310 Lancaster & Chester Hopper with Load | 21.50 |
| L-19311 Southern Pacific Covered Hopper | 21.50 |
| L-19316 Wabash Covered Hopper | 21.50★ |
| L-17004 MKT Centerflow 2-Bay Hopper— Standard "O" | 34.95★ |
| L-17109 Norfolk & Western Centerflow 2-Bay Hopper—Standard "O" | 35.95★ |
| L-17110 Union Pacific 3-Bay Hopper with Coal Load—Standard "O" | 38.50★ |
| L-17111 Reading 3-Bay Hopper with Coal Load—Standard "O" | 38.50★ |

DIE-CAST VEHICLES

| | |
|---|--------|
| L-12783 Lionel Tractor with Monon Trailer | 10.50★ |
| L-12785 Lionelville Tractor with Gravel Trailer | 10.50★ |
| L-12786 Lionelville Tractor with Steel Trailer | 11.50★ |
| L-12795 Cable Reels (2) | 3.95★ |

★ 1991 NEW RELEASE

TANK and STOCK CARS

| | |
|--|--------|
| L-16104 Santa Fe Tank Car | 19.95 |
| L-16107 Sunoco Tank Car | 19.95 |
| L-16113 Diamond Shamrock 2-Dome Tank Car | 19.95★ |
| L-16638 Circus Animal Car | 26.50★ |
| L-19602 Johnson Single-Dome Tank Car with Metal Trucks | 39.95★ |
| L-19515 Milwaukee Road Stock Car with Metal Trucks | 29.95 |
| L-19519 Frisco Stock Car with Metal Trucks | 29.95★ |
| L-17900 Santa Fe Uni-Body Tank Car— Standard "O" | 54.95★ |
| L-17901 Chevron Uni-Body Tank Car— Standard "O" | 54.95★ |
| L-17902 New Jersey Zinc Co. Uni-Body Tank Car— Standard "O" | 52.75★ |
| L-17903 Conoco Uni-Body Tank Car— Standard "O" | 52.75★ |

FLAT and AUTO CARS

| | |
|---|--------|
| L-16214 Denver & Rio Grande Western Bi-Level Auto Carrier | 33.95 |
| L-16318 Lionel Lines Depressed Center Flat Car with Cable Reel Load | 21.00 |
| L-16323 Lionel Lines Flat Car with Trailers | 22.95 |
| L-16324 Pennsylvania Depressed Center Flat Car with Cable Reel Load | 21.00 |
| L-16326 Santa Fe Depressed Center Flat Car with Cable Reel Load | 21.00★ |
| L-16330 MKT Flat Car with Trailers | 22.95★ |
| L-16332 Lionel Lines Depressed Center Flat Car with Transformer Load | 22.95★ |
| L-16333 Frisco Bulkhead Flat with Load | 23.95★ |
| L-16334 C&NW TTUX Flat Car Set | 63.50★ |
| L-12795 Cable Reels for Flat Car Loads (2) | 3.95★ |

ORE CARS

| | |
|--|--------|
| L-19307 Bessemer & Lake Erie with Load | 18.95 |
| L-19313 Baltimore & Ohio with Load | 18.95 |
| L-19315 Amtrak with Load | 18.95★ |

CABOOSES

| | |
|---|-------|
| L-6427 Burlington Maintenance | 12.95 |
| L-16510 New Haven Bay-Window—Illum'd | 26.50 |
| L-16516 Lehigh Valley Square Window—Illum'd | 23.95 |
| L-16517 Atlantic Coast Line—Illum'd | 27.50 |

SUPER SPECIAL

| | |
|---------------------------------|-------|
| L-17603 Rock Island High Cupola | 39.95 |
| L-17605 Reading Wood Side | 39.95 |

| | |
|--|---------|
| L-17606 New York Central Square Window with Smoke | 76.95 |
| L-17607 Reading Square Window with Smoke | 76.95 |
| L-17608 Chessie System Square Window with Smoke | 76.95★ |
| L-17610 Wabash System Square Window with Smoke | 76.95★ |
| L-17611 New York Central Wood Side | 59.95 |
| L-19704 Western Maryland Extended Vision with Smoke | 65.00 |
| L-19706 Union Pacific Extended Vision with Smoke | 65.00 |
| L-19807 Pennsylvania Extended Vision with Smoke | 69.95★ |
| L-19710 Frisco Extended Vision with Smoke | 69.95 |
| L-51702 Pennsylvania Class "N-8" Brass Caboose | 265.00★ |

OPERATING ACCESSORIES

| | |
|--|------------|
| L-12703 Icing Station | 89.95 |
| L-12704 Dwarf Signal | 17.50 |
| L-12708 Street Lamps (3) | 8.95 |
| L-12709 Banjo Signal | 32.50 |
| L-12713 Automatic Gateman | 44.95 |
| L-2128 Automatic Switchman—Similar to L-12713 Automatic Gateman, But Without Shed | 37.95 |
| L-12714 Automatic Crossing Gate | 26.95 |
| L-12715 Illuminated Track Bumpers (2) | 5.75 |
| L-12716 Illuminated Searchlight Tower | 28.50 |
| L-12719 Animated Refreshment Stand | 74.95 |
| L-12722 Lionelville Smoking Roadside Diner | 46.50 |
| L-12723 Microwave Tower | 22.95 |
| L-12724 Double Signal Bridge | 26.95 |
| L-12727 Operating Semaphore Signal | 27.50 |
| L-12729 Mail Pick-Up Set | 23.50 |
| L-12735 Diesel Horn Shed | 35.50 |
| L-12737 Whistling Freight Shed | 35.50 |
| L-12742 Goose Neck Street Lamps (2) | 13.50 |
| L-12748 Illuminated Station Platform | 18.95 |
| L-12749 Rotary Radar Antenna | 33.95 |
| L-12759 Floodlight Tower | 29.95 |
| L-12760 Automatic Highway Flasher | 38.95 |
| L-12761 Animated Billboard | 32.50 |
| L-12763 Single Signal Bridge | 36.50 |
| L-12771 Mom's Smoking Roadside Diner | 46.50 |
| L-12772 Illuminated Extension Bridge with Rock Piers (Black) | 30.95 |
| L-2324 Operating Switch Tower | SALE 59.95 |

BUILDING KITS

| | |
|---------------------------|-------|
| L-12710 Engine House | 26.95 |
| L-12711 Water Tower | 14.95 |
| L-12726 Grain Tower | 26.95 |
| L-12734 Passenger Station | 17.95 |
| L-12736 Coaling Station | 26.95 |
| L-12773 Freight Platform | 11.95 |
| L-2709 Rico Station | 26.95 |

"O" CORK ROAD BED 25 3-ft. Pieces - \$22.00

"O27" TRACK & SWITCHES

| | |
|--|-------|
| L-5020 90° Crossover | 4.50 |
| L-5023 45° Crossover | 5.50 |
| L-6024 35° Straight Track (min. order 10 pcs.) | 2.45 |
| Case of 25 Pieces | 58.25 |
| L-5033 Curved Track (8 makes a circle) | .65 |
| L-5038 9° Straight Track | .65 |
| L-5049 042 Curved Track (12 makes a circle) | 1.20 |
| L-5113 Wide Radius Curve (16 makes a circle) | 1.35 |
| L-5149 Remote Uncoupling Track | 6.50 |
| L-12746 Remote Operating/Uncoupling Track | 13.95 |
| L-5021 Manual Switch - LEFT | 12.75 |
| L-5022 Manual Switch - RIGHT | 12.75 |
| 5021, 5022 BOTH FOR | 24.95 |
| L-5121 Remote Switch - LEFT | 19.75 |
| L-5122 Remote Switch - RIGHT | 19.75 |
| 5121, 5122 BOTH FOR | 38.50 |
| L-5167 042 Remote Switch - LEFT | 27.50 |
| L-5168 042 Remote Switch - RIGHT | 27.50 |
| 5167, 5168 BOTH FOR | 52.50 |

"O" GAUGE TRACK & SWITCHES

| | |
|--|-------|
| L-5132 Remote Switch - RIGHT | 39.95 |
| L-5133 Remote Switch - LEFT | 39.95 |
| Pair Remote Switches | 75.95 |
| L-5500 Straight Track (10") | 1.15 |
| L-5501 Curved Track (8 makes a circle) | 1.15 |
| L-5523 40° Straight Track (minimum order 10 pieces) | 4.10 |
| Case of 25 pieces | 94.95 |
| L-5530 Remote Uncoupling Track | 12.50 |
| L-5540 90° Crossover | 7.25 |
| L-5545 45° Crossover | 7.95 |
| L-5554 054 Wide Radius Curved Track | 1.60 |

"O72" GAUGE TRACK & SWITCHES

| | |
|---|--------|
| L-5165 Remote Switch - RIGHT | 56.95 |
| L-5166 Remote Switch - LEFT | 56.95 |
| Pair of 72 Remote Switches | 109.95 |
| L-5572 072 Wide Radius Curved Track (16 make a circle) | 1.90 |

LIFELIKE TREES

| | |
|---|------|
| L-1001 Green Shade Trees (4 Trees) | 2.95 |
| L-1002 Autumn Trees (4 Trees) | 2.95 |
| L-1003 Evergreen Trees (4 Trees) | 2.95 |
| L-1004 White Birch Trees (4 Trees) | 2.95 |
| L-1005 Poplar Trees (4 Trees) | 2.95 |
| L-1006 Spring Trees (2 Trees) | 2.95 |
| L-1008 Giant Winter Trees (2 Trees) | 2.95 |
| L-1010 Giant Blue Spruce Trees (2 Trees) | 2.95 |
| L-1011 Giant Fir Trees (2 Trees) | 2.95 |
| L-1012 Winter Trees (2 Trees) | 2.95 |
| L-1013 Giant Redwood Trees (2 Trees) | 2.95 |
| L-1015 Giant Green Shade Trees (2 Trees) | 2.95 |
| L-1020 Green Shade Trees Small (4 Trees) | 2.95 |
| L-1021 Autumn Trees Small (4 Trees) | 2.95 |
| L-1022 Evergreen Trees Small (4 Trees) | 2.95 |
| L-1023 Apple Trees (4 Trees) | 2.95 |
| L-1051 Super Giant Winter Trees (2 Trees) | 5.50 |
| L-1052 Super Giant Oak Trees (2 Trees) | 5.50 |
| L-1053 Super Giant Pine Trees (2 Trees) | 5.50 |

American Flyer® S GAUGE

PASSENGER SET & CARS

| | |
|---|---------|
| AF-49601 Missouri Pacific PA1 Set | 539.95★ |
| AF-48914 Missouri Pacific Passenger Car | 54.95★ |
| AF-48915 Missouri Pacific Vista Dome | 54.95★ |

LOCOMOTIVES

| | |
|--------------------------------------|---------|
| AF-48005 Pennsylvania "GP9" Diesel | 228.00 |
| AF-48008 New Haven "EP-5" Little Joe | 239.95★ |
| AF-48707 New Haven Sq Window Caboose | 33.95★ |
| Both NH Loco and Caboose | 269.95★ |
| AF-48009 General Motors "GP7" Diesel | 228.00★ |

ROLLING STOCK

| | |
|---|--------|
| AF-9207 Baltimore & Ohio Cov'd Hopper | 16.00 |
| AF-9208 Santa Fe Cov'd Hopper | 16.50 |
| AF-9209 New York Central Hopper | 16.50 |
| AF-9304 New York Central Gon w/Canisters | 15.00 |
| AF-9405 Santa Fe Illum'd Caboose | 27.50 |
| AF-9711 Southern Pacific Box Car | 26.95 |
| AF-48305 Wabash Box Car | 26.95 |
| AF-48306 Seaboard Box Car | 26.95 |
| AF-48310 Katy Box Car | 26.95★ |
| AF-48505 Illinois Central Bulkhead Flat | 26.95 |
| AF-48603 Wabash Hopper w/Coal Load | 15.00 |
| AF-48604 Milwaukee Road Cov'd Hopper | 19.95 |
| AF-48605 Burlington Northern Cov'd Hopper | 19.95 |
| AF-48703 Union Pacific Caboose | 29.95 |
| AF-48707 New Haven Sq Window Caboose | 33.95★ |
| AF-48800 Wabash Refrigerator | 24.95 |
| AF-49003 Union Pacific Searchlight Car | 53.95★ |

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LGB / USA TRAINS CHRISTMAS SETS AND COMMEMORATIVE CARS

| | | |
|----------|---|--------|
| G-20540 | LGB Christmas Train Set-1990 | 399.95 |
| G-21540 | LGB Christmas Train Set-1991 | 369.95 |
| G-4021CT | 1991 Christmas Gondola | 52.50 |
| R-1300 | 1991 Christmas Reeler | 64.95 |
| R-1620 | 1990 Christmas Reeler-North Pole | 64.95 |
| R-1940C | Christmas Workshop with Smoking Stack and Lights | 125.00 |
| R-1969 | 1989 Christmas Box Car-Deer Santa, I Want It All-Ltd Qty | 59.95 |

CHRISTMAS SPECIAL

M-977 12' Christmas Tree with Flashing Lights
and Sound **SPECIAL 9.95**

LGB TRAIN SETS & TRACK EXPANDERS

| | | |
|----------|--|--------|
| G-21988 | Circus Set | 324.95 |
| G-2317/6 | Motorized Tender for Circus Set Above | 99.95 |
| G-21990 | Industrial Train Set | 167.50 |
| G-22301 | Lake George & Boulder Passenger Set | 205.00 |
| G-22401 | Lake George & Boulder Freight Set | 205.00 |
| G-2117/6 | Motorized Tender For 22301/22401 | 99.95 |
| G-23301 | Smoking Passenger Set | 245.00 |
| G-23401 | Smoking Freight Set with Crane | 245.00 |
| G-25301 | Lake George & Boulder Smoking Passenger Set-Red | 259.95 |

| | | |
|---------|---|--------|
| G-25401 | Lake George & Boulder Smoking Passenger Set-Red/Silver | 259.95 |
| G-1988 | Nurenburg Tramway Set-Ltd Qty | 175.00 |
| G-20202 | Tramway Set | 317.95 |
| G-20301 | Small Track Supplement | 59.95 |
| G-20202 | Large Track Supplement | 92.95 |

AMERICAN PROTOTYPE LGB LOCOMOTIVES

| | | |
|----------|--|--------|
| G-2017D | U.S. 0-4-0 Tender Loco with Smoke- 2 Motors | 258.50 |
| G-2019S | U.S. Mogul 2-6-0 Loco with Tender, Sound, Lighted Firebox and Smoke- Colorado & Southern | 779.95 |
| G-2055 | White Pass & Yukon 2 Motor Diesel | 444.95 |
| G-2056 | Rio Grande Twin Motor Diesel | 479.95 |
| G-2063 | Rio Grande Diesel Switcher | 245.50 |
| G-2077D | Saddle Tank Tender Loco w/Smoke-Gray | 90.50 |
| G-2119D | Lake George & Boulder Mogul | 424.95 |
| G-2155S | White Pass & Yukon Diesel with Sound | 779.95 |
| G-2177D | Saddle Tank Tender Loco w/Smoke-Red | 90.50 |
| G-2217/6 | Motorized Tender-Black | 99.95 |
| G-2219S | U.S. Mogul 2-6-0 Loco w/Tender, Sound, Firebox, Smoke-Pennsylvania | 699.95 |
| G-2317/6 | Motorized Tender-Circus | 99.95 |

AMERICAN PROTOTYPE LGB PASSENGER CARS

| | | |
|-----------|--|--------|
| G-3082 | D&RGW Coach-Closed Vestibule | 103.95 |
| G-3083 | D&RGW Combine-Closed Vestibule | 103.95 |
| G-3084 | D&RGW Baggage Car | 83.95 |
| G-3080SD1 | Pennsylvania Coach-Green | 75.95 |
| G-3081E02 | Pennsylvania Combine-Green | 75.95 |
| G-3180 | Denver, South Park & Pacific Coach-Red | 93.95 |
| G-3181 | DS&PRR Combine-Red | 93.95 |
| G-3280 | Pennsylvania Coach-Brown | 76.50 |
| G-3281 | Pennsylvania Combine-Brown | 76.50 |

LGB FREIGHT CARS

Short 2-Axle for Adding On To Sets

| | | |
|----------|------------------------------------|--------|
| G-4021CT | 1991 Christmas Gondola | 52.50 |
| G-4022 | Flat Car with Platform-Ltd Qty | 32.95 |
| G-4024 | Gondola with Platform-Ltd Qty | 34.95 |
| G-4025 | UCE Cement Silo Wagon | 66.95 |
| G-4026 | Box's Beer Wagon | 66.95 |
| G-4027 | Beck's Car with Platform | 50.95 |
| G-4029 | Beverage Car | 55.50 |
| G-4030 | Box Car-Brown | 44.95 |
| G-4036 | Circus Coach | 60.95 |
| G-4125 | Circus Observation Car | 68.95 |
| G-4036 | Circus Wagon | 49.95 |
| G-4037 | Circus Flat with Box Office Van | 37.50 |
| G-4038 | Circus Flat with Cage-Ltd Qty | 49.95 |
| G-4165 | Circus Caboose | 66.95 |
| G-5027 | Circus Animals | 26.50 |
| G-4039 | Spreewald Railway Car | 65.50 |
| G-4040B | BP Tank Car-Black | 52.95 |
| G-4041E | Esso Tank Car-Red/White | 52.95 |
| G-4042 | Leuna Tank Car | 52.95 |
| G-4043 | Shell Tank Car-Yellow | 52.95 |
| G-4044 | Crane Car | 65.50 |
| G-4044 | High-Sided Wagon | 18.50 |
| G-4045 | Stanchion Wagon | 15.95 |
| G-4047 | Single Cask Wine Car | 22.95 |
| G-4049 | Searchlight Car | 103.95 |
| G-4055 | Cement Wagon | 57.95 |
| G-4103 | Container Car with 20-ft Container | 48.95 |
| G-4110 | Low Sided Gondola | 34.25 |
| G-4111 | Covered Gondola w/Working Hatches | 42.95 |
| G-4124 | High Sided Gondola | 42.95 |
| G-4126 | Thum & Taxis Beer Car | 65.50 |
| G-4127 | RHB Cargo Domicar | 65.50 |
| G-4128 | Montreux-Berner Freight Car | 66.95 |
| G-4131 | Lowbrau Beer Car | 49.95 |
| G-4135S | Sound Box Car | 103.95 |
| G-4140 | Lake George & Boulder | 52.75 |
| G-4141 | Hopper Car | 44.95 |
| G-4143 | Mining Car with Coal Load | 15.50 |
| G-4165 | Circus Caboose | 66.95 |
| G-4228 | "Hennitz" Freight Car | 66.95 |
| G-4326 | "Appenzeller Kaetze" Freight Car | 66.95 |

AMERICAN PROTOTYPE LGB FREIGHT CARS

| | | |
|-----------|--|--------|
| G-4058 | Depressed Center Flat Car with Transformer Load | 119.95 |
| G-4061 | Gondola-Red/Black | 42.95 |
| G-4065 | Caboose-Red | 58.95 |
| G-4065E03 | Pennsylvania Caboose | 58.95 |
| G-4065L01 | Lake George & Boulder Caboose | 58.95 |
| G-4065W03 | White Pass & Yukon Caboose | 58.95 |
| G-4066 | Log Car-Green | 42.95 |
| G-4067D01 | Denver & Rio Grande Box Car-Ltd Qty | 59.95 |
| G-4067F01 | New York Central "Pacemaker" Box Car-Ltd Qty | 59.95 |
| G-4067K01 | State of Maine Box Car-Ltd Qty | 59.95 |
| G-4068 | Denver & Rio Grande Western Stock Car-Green | 51.95 |
| G-4068N01 | Great Northern Stock Car | 58.95 |
| G-4069 | Container Car | 75.00 |
| G-4071 | White Pass & Yukon Caboose | 119.95 |
| G-4072P01 | Colorado Midland Reeler-White | 87.95 |
| G-4072P02 | Colorado Midland Reeler-Green | 87.95 |
| G-4072 | Miller Beer Reeler | 67.95 |
| G-4073 | Denver & Rio Grande Western Gondola-Brown | 55.95 |
| G-4073C03 | Denver & Rio Grande Western Gondola-Black-Ltd Qty | 55.95 |
| G-4074B02 | Tiffany Reeler-Ltd Qty | 64.50 |
| G-4074Z02 | Schlitz Beer Reeler-Ltd Qty | 64.50 |
| G-4076M01 | Burlington Hopper | 75.95 |
| G-4076W02 | White Pass & Yukon Hopper | 75.95 |
| G-4076X01 | Peabody Coal Co. Hopper | 64.50 |
| G-4076 | East Broad Top Operating Hopper | 64.50 |
| G-4078 | Lake George & Boulder Pulp Wood Flat | 79.50 |
| G-4080 | Conoco Tank Car | 74.95 |
| G-4080Y01 | Conoco Tank Car-Ltd Qty | 35.00 |
| G-4080Y02 | Gramps Tank Car-Ltd Qty | 64.50 |
| G-4080W01 | White Pass & Yukon Tank Car-Ltd Qty | 88.95 |
| G-4080Y05 | San Diego & Arizona Tank Car-Ltd Qty | 75.95 |
| G-4085 | White Pass & Yukon Container Car | 83.50 |
| G-4086 | White Pass & Yukon Ore Car | 83.50 |
| G-4090 | Lake George & Boulder Box Car | 79.95 |
| G-4091 | Denver & Rio Grande Western Box Car | 88.50 |
| G-4159 | Auto Transport Car | 68.50 |
| G-4167 | White Pass & Yukon Box Car-Ltd Qty | 53.95 |
| G-4168 | White Pass & Yukon Box Car-Ltd Qty | 58.95 |
| G-4169 | Lumber Car | 66.95 |
| G-4174 | Denver & Rio Grande Reeler | 79.95 |
| G-4180 | Red Crown Tank Car | 93.50 |
| G-4190 | Sprite Box Car | 93.50 |
| G-4280 | Shell Tank Car | 95.95 |

LGB LOCOMOTIVES

| | | |
|---------|---|--------|
| G-2001 | Inspection Hand Car | 61.95 |
| G-2010D | 0-4-0T Loco with Smoke | 149.95 |
| G-2015D | 0-4-0 Tender Loco with Smoke- Black-2 Motors | 258.50 |
| G-2020 | 0-4-0T Loco | 141.50 |
| G-2020D | 0-4-0T Loco with Smoke | 158.95 |
| G-2040 | Electric "Crocodile" Loco | 375.95 |
| G-2043 | Type Ge4/4 II Electric Loco | 524.95 |
| G-2045 | Swiss Loco | 269.95 |
| G-2046 | Rack Loco | 269.95 |
| G-2051 | Two-Truck Diesel Loco-Red-Ltd Qty | 299.95 |
| G-2060H | Diesel Loco with Horn | 155.95 |
| G-2061 | Swiss Diesel Loco-Ltd Qty | 122.95 |
| G-2062 | Industrial Diesel Loco | 234.95 |
| G-2064 | Rail Car-Ltd Qty | 219.95 |
| G-2066 | Wisnar Diesel Rail Bus | 199.95 |
| G-2073D | Tank Loco with Smoke | 169.95 |
| G-2074D | 2-6-0 Steam Loco | 277.95 |
| G-2076D | Steam Loco w/Smoke & Lights | 144.95 |
| G-2078D | French Tender Loco | 253.95 |
| G-2080D | 2-6-2 Steam Loco with Smoke | 244.95 |
| G-2080S | 2-6-2 Steam Loco w/Sound and Smoke | 604.95 |
| G-2085D | 0-6-6-0 Mallet Loco with Smoke | 504.95 |
| G-2090N | Diesel Loco-Yellow | 81.50 |
| G-2095N | B-B Diesel Loco | 64.95 |
| G-2096S | Diesel Loco with Sound | 569.95 |
| G-2146 | Rack Loco-Blue/Beige | 329.95 |
| G-2150 | "Elias" Steam Tram Loco | 164.95 |
| G-2171D | Zillertal Loco with Smoke | 241.95 |

LGB 4-AXLE COACHES

| | | |
|--------|------------------------------------|--------|
| G-3061 | Coach with Ornamentation-Brown | 82.50 |
| G-3062 | Coach-Green | 68.95 |
| G-3067 | Swiss Passenger Coach | 215.95 |
| G-3068 | Swiss Dining Car | 261.95 |
| G-3069 | RHB Baggage Car | 107.95 |
| G-3070 | Coach-Green | 103.50 |
| G-3071 | Coach with Baggage Section | 83.95 |
| G-3072 | Florida Bay Coach | 83.95 |
| G-3073 | Coach-Red/Beige | 83.95 |
| G-3163 | Zillertal Coach-Blue | 71.95 |
| G-3164 | Zillertal Coach-Blue/Gray | 76.95 |
| G-3167 | Rhaetian Rwy Composite Coach | 169.95 |
| G-3171 | Coach, DR with Baggage Compartment | 103.95 |
| G-3172 | Krombach Passenger Coach | 103.95 |
| G-3264 | Schoellenb Passenger Coach | 94.95 |
| G-3267 | Funka Passenger Coach-Series III | 224.95 |

LGB STREETCARS

| | | |
|--------|--------------------------------|--------|
| G-2035 | Contemporary-Yellow | 199.95 |
| G-3500 | Trailer with Passengers-Yellow | 84.95 |
| G-3530 | Tower Wagon/Overhead Repair | 28.95 |

LGB PASSENGER CARS

Short 2-Axle for Adding On To Sets

| | | |
|----------|-------------------------------------|-------|
| G-3006 | U.S. Coach | 50.95 |
| G-3007 | Coach-Brown | 50.95 |
| G-3010 | Coach-Green-Ltd Qty | 55.50 |
| G-3011 | Coach-Red/Beige | 57.95 |
| G-3013 | Dining Car-Blue | 57.95 |
| G-3015 | Coach-Blue/Beige | 57.95 |
| G-3016 | Zillertal Railway Restaurant Car | 68.95 |
| G-3019 | Lighted Mail Car-Green | 76.95 |
| G-3019/1 | Metal Wheel Set (2) | 10.50 |
| G-3019/2 | Spoked Metal Wheel Set (2) | 10.50 |
| G-3019/3 | Electric Pickups | 4.95 |
| G-3020 | Spreewald Coach | 68.95 |
| G-3025 | RHB Passenger Coach | 57.95 |
| G-3030 | Coach Lighting Kit | 3.95 |
| G-3031 | Red Tail Light | 3.95 |
| G-3036 | Circus Coach | 60.95 |
| G-3040 | Coach-Green | 57.95 |
| G-3041 | Excursion Car | 24.50 |
| G-3050 | Coach Compartment-Green | 76.95 |
| G-3106 | Wuerttemberg Regional Railway Coach | 52.95 |
| G-3107 | Zillertal Railway Coach | 47.95 |
| G-3125 | Circus Observation Car | 68.95 |
| G-3206 | French Passenger Car | 61.50 |
| G-3207 | Austrian Coach | 61.95 |
| G-3306 | Lake George & Boulder Passenger Car | 52.75 |
| G-3307 | "Tamsweg" Passenger Car | 63.95 |
| G-3407 | "Krauter" Car | 60.95 |
| G-3907 | Passenger Coach | 58.95 |

LGB TRACK

| | | |
|--------|----------------------------------|-----------------|
| G-1000 | 12' Straight Track | Each 3.95 |
| | Case of 12 Pieces | 45.00 |
| G-1060 | 24' Straight Track | Each 7.95 |
| | Case of 12 Pieces | 89.50 |
| G-1061 | 48' Straight Track | Case of 6 89.95 |
| G-1100 | Curved Track-Outside Dia 50" | Each 3.95 |
| | Case of 12 Pieces | 45.00 |
| G-1500 | Curved Track-Outside Dia 64 1/2" | Each 7.50 |
| | Case of 12 Pieces | 85.50 |
| G-1600 | Curved Track-Outside Dia 8" | Each 7.95 |
| | Case of 12 Pieces | 89.50 |
| G-1200 | Manual Switch-Right | 26.95 |
| G-1205 | Electric Switch-Right | 38.50 |
| G-1210 | Manual Switch-Left | 26.95 |
| G-1215 | Electric Switch-Left | 38.50 |
| G-1605 | Electric Switch-Right | 49.95 |
| G-1615 | Electric Switch-Left | 49.95 |



| | | |
|---------|---------------------------------------|--------|
| G-900P | Railway Station | 109.95 |
| G-901P | Mail Building | 159.95 |
| G-905P | Freight Depot | 97.95 |
| G-906P | Railway Station with Smoke | 126.95 |
| G-907P | Silverton Station (see 913P and 918P) | 123.95 |
| G-910P | Engine Shed | 93.50 |
| G-911P | Double Engine Shed | 132.95 |
| G-912P | Dark Moor Shanty | 20.95 |
| G-913P | Silverton Outhouse | 46.50 |
| G-918P | Silverton Covered Platform | 53.95 |
| G-923P | U.S. Water Tower | 61.50 |
| G-935P | Water Mill-Operating | 157.95 |
| G-956P | Sam's Filling Station | 49.95 |
| G-980P | Overbrook Station | 48.95 |
| G-981P | Corn Shop | 60.95 |
| G-984P | Weismuller Farm | 108.95 |
| G-985P | Barn | 92.50 |
| G-986P | Silo | 69.95 |
| G-990P | Church | 146.95 |
| G-992P | Fire Station | 139.95 |
| G-993P | Kleinbeck Post Office | 73.95 |
| G-994P | Paul's Burger & Shake | 91.95 |
| G-995P | Susi's Newspaper | 28.95 |
| G-1800P | Cherry Hill Stop | 18.50 |
| G-1801P | Sheriff's Office | 68.50 |
| G-1802P | Red Horse Saloon | 68.50 |
| G-1804P | First National Bank | 77.50 |
| G-1805P | Wells Fargo Station | 79.95 |
| G-1806P | Idaho Springs Station | 123.95 |
| G-1807P | Central City Station | 55.50 |
| G-1809P | St. Michael's Church | 81.50 |
| G-1810P | Little Red School House | 77.50 |
| G-1811P | Daisy's Farm House | 86.95 |
| G-1812P | Red Miller's Barn | 64.50 |
| G-1820P | Wells Fargo Coach | 57.95 |
| G-1830P | Dr. Walter's Family | 13.95 |
| G-1831P | Mr. speedy | 13.95 |
| G-1850P | Lanz Tractor | 49.95 |
| G-1851P | Trailer for Tractor | 35.50 |
| G-1852P | Lanz Speed Tractor | 53.50 |
| G-1853P | Plow & Harness for Tractor | 35.50 |
| G-1854P | Timber Wagon | 35.50 |
| G-1941 | Merry-Go-Round | 329.95 |

MODEL POWER POLA BUILDINGS

| | | |
|---------|--------------------------|------------|
| G-1601P | Charley's Tavern | SALE 32.50 |
| G-1603P | Garden City Station | SALE 36.50 |
| G-1605P | Billy Winters Farm House | SALE 42.50 |
| G-1606P | Timber City Station | SALE 50.95 |
| G-1614P | Oak Hill Shanty | SALE 15.50 |
| G-1616P | Budweiser Warehouse | SALE 29.95 |
| G-1619P | PS 1894 School | SALE 44.95 |
| G-1620P | Line Springs Town | SALE 20.95 |
| G-1622P | Aspen Ski Shack | SALE 37.95 |
| G-1623P | Pinkerton Outpost | SALE 37.95 |
| G-1624P | Fresh Farms Dairy | SALE 72.95 |



LARGE SCALE TRAIN SETS

| TRAIN SETS | | |
|------------|--------------------------|-------------|
| L-81002 | Frontier Freights | SALE 140.00 |
| L-81004 | North Pole Railroad | 169.95 |
| L-81001 | Thunder Mountain Express | SALE 185.00 |
| L-81006 | Union Pacific Limited | 225.00 |
| L-81007 | Disney Magic Mountain™ | 239.95 |



WHITE PASS SERIES

| | | |
|---------|------------------------------------|-------|
| R-1922A | White Horse Box Car - Tuscan | 54.95 |
| R-1922B | Bracket Box Car - Tuscan | 54.95 |
| R-1922C | Black Cross Box Car - Tuscan | 54.95 |
| R-1922D | White Pass Summit Box Car - Tuscan | 54.95 |
| R-1922A | Skagway Reefer - White | 59.95 |
| R-1922B | Carcross Reefer - Yellow | 59.95 |

NEW

**NOW Digitally Recorded
SYNC-RO DIESEL HORN
and DIESEL ROAR — The
perfect addition to the LGB
White Pass Locomotive
complete with USA car included**

**NOW Digitally Recorded
from a REAL TRAIN!
SYNC-RO SOUND OF STEAM
WITH MOUNTAIN WHISTLE
\$159.95 complete with car included**

Our sound system is totally electronic—there are no track tips, levers, cams or other mechanical parts to break or wear out. The Mountain Whistle sounds three times in intervals of 30 seconds to two minutes. You can adjust the time of the interval to your liking.

THE AMERICAN SERIES U.S. Box Cars

| | | |
|--|--------------------------------------|-------|
| Woodgrain Sides, Steel Looking Ends and Doors | | |
| R-1950 | Pennsylvania-Tuscan | 55.95 |
| R-1951 | Northern Pacific-Green | 55.95 |
| R-1953 | B&O Sentinel-Silver/Blue | 58.50 |
| R-1954 | Southern-Red | 55.95 |
| R-1955 | Southern Pacific-Black | 55.95 |
| R-1957 | Missouri Pacific-Blue/Gray | 58.50 |
| R-1958 | Canadian Pacific-Red Oxide | 55.95 |
| R-1959 | Chicago & North Western-Green/Yellow | 55.95 |
| R-1960 | State of Maine-Red/White/Blue | 63.75 |
| R-1961 | Canadian National-Red | 55.95 |
| R-1962 | Boston & Maine-Red | 55.95 |
| <i>Limited Edition - Only 200 Made</i> | | |
| R-1979 | Domino Sugar-White/Blue | 55.95 |

U.S. Box Cars

| | | |
|---|--|-------|
| Steel Looking Sides, Ends and Doors | | |
| R-1963 | New York Central-Green | 55.95 |
| R-1964 | Santa Fe-Red | 55.95 |
| R-1965 | Alaska Railroad-Blue | 55.95 |
| R-1966 | Western Pacific-Silver/Orange | 55.95 |
| R-1967 | Wells Fargo-Green | 55.95 |
| R-1968 | Union Pacific-Yellow | 55.95 |
| R-1970 | Maine Central-Gold/Green | 55.95 |
| R-1971 | Boston & Maine-Blue | 55.95 |
| R-1972 | Union Pacific-Red | 55.95 |
| R-1973 | Great Northern-Red | 55.95 |
| R-1974 | Seaboard-Silver | 55.95 |
| R-1975 | Western Pacific-Orange with Blue Feather | 55.95 |
| <i>Limited Edition—Only 200 Made Now with Super Detailed Graphics</i> | | |
| R-1978 | Bakers Chocolate-Cream/Brown | 55.95 |
| R-1980 | New Haven-Orange | 55.95 |

U.S. Box Cars

| | | |
|---------------------------------------|-----------------------------|-------|
| Single Sheathed—Outside Braced | | |
| R-1400 | Chicago & North Western | 55.95 |
| R-1401 | Northern Pacific | 55.95 |
| R-1402 | Boston & Maine | 55.95 |
| R-1403 | Southern Pacific | 55.95 |
| R-1404 | Wabash | 55.95 |
| R-1405 | Union Pacific-Red | 55.95 |
| R-1406 | Ball Jar Company-Yellow | 55.95 |
| R-1450 | Denver & Rio Grande Western | 55.95 |
| R-1451 | Denver & Rio Grande Western | 55.95 |

DENVER & RIO WESTERN NARROW GAUGE

| | | |
|---------|-----------------------------|-------|
| R-1943 | Box Car #3689-Red | 55.95 |
| R-1945 | Box Car #3184-Red | 55.95 |
| R-1947 | Box Car #3297-Red | 55.95 |
| R-1949A | Box Car #3469-Yellow/Silver | 55.95 |
| R-1949B | Box Car #3393-Red | 55.95 |
| R-1949C | Box Car #3391-Red | 55.95 |
| R-1949D | Box Car #3689-Red | 55.95 |
| R-1603 | Reefer #78-Yellow | 59.95 |
| R-1624 | Reefer #50-Yellow | 59.95 |
| R-1712 | Bulk Head Flat Car | 44.95 |
| R-1450 | Outside Braced Box Car | 55.95 |
| R-1451 | Outside Braced Box Car | 55.95 |

COLORADO & SOUTHERN NARROW GAUGE

| | | |
|---------|--|-------|
| R-1605 | Reefer #1105-Yellow | 59.95 |
| R-1619 | Reefer #1119-Yellow | 59.95 |
| R-1734 | Bulk Head Flat Car with Stakes-Red | 44.95 |
| R-1976A | Woodgrain Box Car #8293 | 55.95 |
| R-1976B | Woodgrain Box Car #8417 | 55.95 |
| R-1977A | Woodgrain Box Car #8401 with Block Lettering | 55.95 |
| R-1977B | Woodgrain Box Car #8364 with Block Lettering | 55.95 |
| R-1847 | Kitchen Car-Red | 59.95 |
| R-1837 | Tool Car-Red | 59.95 |

U.S. REFRIGERATOR CARS

| | | |
|------------------------------|--|-------|
| Full Woodgrain Detail | | |
| R-1600 | Swift-Red | 59.95 |
| R-1603 | Denver & Rio Grande Western-Yellow | 59.95 |
| R-1604 | PFE/UP Overland-Yellow | 59.95 |
| R-1605 | Colorado & Southern #1105-Yellow | 59.95 |
| R-1607 | Burlington "Everywhere West"-Yellow | 59.95 |
| R-1608 | A&P-Yellow | 59.95 |
| R-1609 | Heinz 57 "Apple Butter"-Yellow | 59.95 |
| R-1616 | Miller Beer-White/Black | 65.95 |
| R-1617 | Corona Beer-White/Black | 65.95 |
| R-1618 | Chateau Martin Wine-Purple | 59.95 |
| R-1619 | Colorado & Southern #1119-Yellow | 59.95 |
| R-1621 | Pacific Beer-Yellow | 65.95 |
| R-1623 | Openheimer-Blue/Tuscan | 59.95 |
| R-1624 | Denver & Rio Grande Western-Yellow | 59.95 |
| R-1625 | Tropicana-White/Green | 59.95 |
| R-1626 | Baby Ruth-Maroon | 59.95 |
| R-1627 | Hoods Milk-Green/Tuscan | 59.95 |
| R-1628 | Railway Express-Green/Black | 59.95 |
| R-1629 | Heinz Food Products-White/Green | 59.95 |
| R-1630 | Olympia Beer-Yellow/Tuscan | 65.95 |
| R-1631 | Pabst Beer-White/Black | 65.95 |
| R-1633 | Central Vermont-Silver/Black | 59.95 |
| R-1634 | Rath-Yellow | 59.95 |
| R-1635 | Pacific Fruit Express UP/SP-Orange/Black | 59.95 |
| R-1636 | Green Bay & Western-Green/Tuscan | 59.95 |
| R-1637 | California Fast Freight Line-Yellow/Tuscan | 59.95 |
| R-1638 | Lindsay Brothers-Green/Black | 59.95 |
| R-1639 | Brookside-Maroon/Black | 59.95 |

FREIGHT TRAIN SERIES

| | | |
|--|-----------------------------|-------|
| — LIMITED EDITION — Piggyback Flat Car with Trailer | | |
| R-1750 | Union Pacific | 84.95 |
| R-1751 | Santa Fe | 84.95 |
| R-1752 | Wabash | 84.95 |
| R-1753 | Great Northern | 84.95 |
| R-1754 | Southern Pacific | 84.95 |
| R-1755 | Pennsylvania | 84.95 |
| R-1756 | Southern | 84.95 |
| R-1757 | Denver & Rio Grande Western | 84.95 |
| R-1758 | Roadway | 84.95 |
| R-1759 | United Movers | 84.95 |
| R-1760 | A&P | 84.95 |
| R-1761 | Texaco | 84.95 |
| R-1762 | White Pass & Yukon | 84.95 |
| ANY 4 PIGGYBACKS ABOVE 329.95 | | |

ANHEUSER-BUSCH SERIES REEFERS

| | | |
|----------------------------|-------------------------------------|-------|
| R-1641 | Anheuser-Busch Classic-White/Tuscan | 65.95 |
| R-1642 | Budweiser-White/Red | 65.95 |
| R-1643 | Budweiser-White/Gold | 65.95 |
| R-1644 | Michelob Dry-White/Blue | 65.95 |
| R-1763 | Cydsdale Piggyback | 99.95 |
| ALL FOUR FOR 259.95 | | |

SANTA FE MAP SERIES REEFERS

| | | |
|--------|-------------------------------|-----------------|
| R-1610 | Grand Canyon/Map-Orange | SOLD OUT |
| R-1611 | Route of the Chief/Map-Orange | 59.95 |
| R-1612 | El Capitan/Map-Orange | 59.95 |
| R-1613 | Super Chief/Map-Orange | 59.95 |

SUPER SPECIALS

Purchase any two USA Trains Rolling Stock items at our regular price and choose any of the following box cars at special prices — they will make great gifts!

| | | |
|---------------------------------------|---------------------------------------|-------|
| LIMITED QUANTITIES AVAILABLE | | |
| R-1932 | Rio Grande Box Car (Yellow-Silver) | 39.95 |
| R-1933 | NYPACemaker Box Car (Red-Gray) | 24.95 |
| R-1934 | Santa Fe Box Car (Tuscan) | 19.95 |
| R-1936 | Santa Fe Box Car (Orange) | 24.95 |
| R-1937 | Union Pacific Box Car (Yellow-Silver) | 24.95 |
| R-1951 | Northern Pacific Box Car (Green) | 19.95 |
| Sale is limited to Quantities on Hand | | |

CHRISTMAS SERIES

| | | |
|---------|--|--------|
| R-1300 | Xmas 1991 Reefer "Santa Claus Is Coming To Town" | 64.95 |
| R-1620 | Xmas 1990 Reefer-Red/White-Ltd Qty | 64.95 |
| R-1940C | Xmas Workshop w/Smoking Chimney, Lights | 125.00 |
| R-1969 | Xmas 1989 Box Car "Dear Santa, I Want It All" | 59.95 |

ANNIVERSARY CARS

| | | |
|----------------------------|--|-----------------|
| — Limited Edition — | | |
| R-1989 | First Anniversary Box Car | SOLD OUT |
| R-1989B | 2nd Anniv. Reefer - Only 100 Made | 79.95 |
| R-1990 | 3rd Anniv. Reefer | 59.95 |
| R-1991 | 4th Anniv. Flat Car with Trailer - Only 100 Made | 99.95 |

The WORK-TRAIN SERIES

| | | |
|---------|-----------------------------|-------|
| R-1800 | Derrick Car with Brass Boom | 99.95 |
| R-1801A | Brass Boom Only | 59.95 |
| R-1810 | Rail and Tie Car | 44.95 |
| R-1800 | Work Flat with Load | 44.95 |
| R-1830 | Bunk Car | 59.95 |
| R-1840 | Kitchen Car | 59.95 |
| R-1850 | Engineering Car | 59.95 |
| R-1870 | Work Caboose/Crane Tender | 67.95 |
| R-1880 | Wheel Car | 44.95 |
| R-1890 | Truck Car | 44.95 |

The following Work Train road names are available — please specify road name when ordering:

| | | |
|---|--|--|
| MAINTENANCE OF WAY - Gray | | |
| PENNSYLVANIA - Yellow | | |
| DENVER & RIO GRANDE WESTERN - Gray | | |
| NEW UNION PACIFIC - Green | | |

KITCHEN CARS

| | | |
|--------|----------------------------|-------|
| R-1843 | Southern Pacific-Red Oxide | 59.95 |
| R-1845 | Santa Fe-Silver/Black | 59.95 |
| R-1846 | Amtrak-Orange/Black | 59.95 |
| R-1847 | Colorado & Southern-Red | 59.95 |

FLAT CARS with AUTOS

| | | |
|--------|--|-------|
| R-1720 | Denver & Rio Grande Western with 2 Vintage Autos | 49.95 |
| R-701 | Pennsylvania with 2 Modern Autos | 49.95 |



ARISTO G GAUGE TRAIN SETS

| | | |
|---------|--------------------------------------|--------|
| A-28025 | Christmas Freight Set | 149.95 |
| A-29001 | Great Northern Freight Set | 224.95 |
| A-29003 | Baltimore & Ohio 2-4-2 Passenger Set | 262.95 |

ARISTO STEAM LOCOMOTIVES

| | | |
|---------|---|--------|
| A-21401 | 4-6-2 Pacific Pennsy w/Tender & Sound | 299.95 |
| A-21402 | 4-6-2 Pacific B&O w/Tender & Sound | 299.95 |
| A-21403 | 4-6-2 Pacific Milw. Rd. w/Tender & Sound | 299.95 |
| A-21404 | 4-6-2 Pacific CNJ Comet w/Tender & Sound | 299.95 |
| A-21405 | 4-6-2 Pacific SRR Crescent w/Tender & Sound | 299.95 |
| A-21407 | 4-6-2 Pacific NYC w/Tender & Sound | 299.95 |
| A-21408 | 4-6-2 Pacific UP w/Tender & Sound | 299.95 |
| A-21409 | 4-6-2 Pacific Rio Grande w/Tender & Sound | 299.95 |
| A-21410 | 4-6-2 Pacific SP w/Tender & Sound | 299.95 |
| A-21411 | 4-6-2 Pacific Santa Fe w/Tender & Sound | 299.95 |
| A-21501 | 2-8-2 Mikado B&O w/Tender & Sound | 314.95 |
| A-21502 | 2-8-2 Mikado Pennsy w/Tender & Sound | 314.95 |
| A-21503 | 2-8-2 Mikado UP w/Tender & Sound | 314.95 |
| A-21504 | 2-8-2 Mikado Santa Fe w/Tender & Sound | 314.95 |
| A-21505 | 2-8-2 Mikado SP w/Tender & Sound | 314.95 |
| A-22001 | Alco FA-1 Diesel New York Central | 149.95 |
| A-22002 | Alco FA-1 Diesel Canadian Pacific | 149.95 |
| A-22003 | Alco FA-1 Diesel Baltimore & Ohio | 149.95 |
| A-22004 | Alco FA-1 Diesel SP "Daylight" | 149.95 |
| A-22005 | Alco FA-1 Diesel Union Pacific | 149.95 |
| A-22006 | Alco FA-1 Diesel Pennsy "Tuscan" | 149.95 |
| A-22007 | Alco FA-1 Diesel Lehigh Valley | 149.95 |
| A-22008 | Alco FA-1 Diesel Rio Grande | 149.95 |
| A-22009 | Alco FA-1 Diesel Rock Island | 149.95 |
| A-22010 | Alco FA-1 Diesel Santa Fe | 149.95 |
| A-22011 | Alco FA-1 Diesel SP "Black Widow" | 149.95 |
| A-22013 | Alco FA-1 Diesel Pennsy "Green" | 149.95 |
| A-22016 | Alco FA-1 Diesel Reading | 149.95 |
| A-22018 | Alco FA-1 Diesel New Haven | 149.95 |
| A-22051 | Alco FB-1 Diesel New York Central | 149.95 |
| A-22052 | Alco FB-1 Diesel Canadian Pacific | 149.95 |
| A-22053 | Alco FB-1 Diesel Baltimore & Ohio | 149.95 |
| A-22054 | Alco FB-1 Diesel SP "Daylight" | 149.95 |
| A-22055 | Alco FB-1 Diesel Union Pacific | 149.95 |
| A-22056 | Alco FB-1 Diesel Pennsy "Tuscan" | 149.95 |
| A-22057 | Alco FB-1 Diesel Lehigh Valley | 149.95 |
| A-22058 | Alco FB-1 Diesel Rio Grande | 149.95 |
| A-22059 | Alco FB-1 Diesel Rock Island | 149.95 |
| A-22060 | Alco FB-1 Diesel Santa Fe | 149.95 |
| A-22061 | Alco FB-1 Diesel SP "Black Widow" | 149.95 |
| A-22063 | Alco FB-1 Diesel Pennsy "Green" | 149.95 |
| A-22066 | Alco FB-1 Diesel Reading | 149.95 |
| A-22068 | Alco FB-1 Diesel New Haven | 149.95 |

**Any ALCO FA-1 and
ALCO FB-1
BOTH FOR 269.95**

| | | |
|---------|-------------------------------------|--------|
| A-22102 | GE U25B Diesel Chessie | 164.95 |
| A-22103 | GE U25B Diesel New Haven | 164.95 |
| A-22104 | GE U25B Diesel Santa Fe | 164.95 |
| A-22105 | GE U25B Diesel Erie-Lackawanna | 164.95 |
| A-22110 | GE U25B Diesel Santa Fe "Warbonnet" | 164.95 |
| A-22112 | GE U25B Diesel New York Central | 164.95 |
| A-22113 | GE U25B Diesel Union Pacific | 164.95 |
| A-22115 | GE U25B Diesel Maine Central | 164.95 |
| A-22116 | GE U25B Diesel Western Pacific | 164.95 |

SELECTED ARISTO ROLLING STOCK

| | | |
|---------|-------------------------------------|-------|
| A-41201 | 2-Bay Cov. Hopper-Nickle Plate | 37.50 |
| A-41202 | 2-Bay Cov. Hopper-Lackawanna | 37.50 |
| A-41205 | 2-Bay Cov. Hopper-Santa Fe | 37.50 |
| A-41206 | 2-Bay Cov. Hopper-Golden Loaf Flour | 37.50 |
| A-41207 | 2-Bay Cov. Hopper-Borax | 37.50 |
| A-41211 | 2-Bay Cov. Hopper-Rio Grande | 37.50 |
| A-41215 | 2-Bay Cov. Hopper-Pennsylvania | 37.50 |
| A-41301 | Chemical Tank-Dow | 29.95 |
| A-41302 | Chemical Tank-Hooker | 29.95 |
| A-41304 | Chemical Tank-Union Oil | 29.95 |
| A-41305 | Chemical Tank-Sindair | 29.95 |
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Jacksonville: Southeastern Railroadiana Collectors Model Train Sale and Trade Show—Feb. 15. Prime F. Osborn Convention Center, 1000 W. Water St. 9 a.m. to 4 p.m. \$3; under 13 free. Jack Martin, 4183 Paron Pines, Atlanta, GA 30327; 404-233-7991.

Kissimmee: Kissimmee-St. Cloud Model Railroad Engineers Swap Meet—Feb. 8. Kissimmee Valley Agricultural Center, Hwy. 192 E. 9 a.m. to 3 p.m. \$2; children free w/adult. Greg Smith, 1347 Aladdin St., St. Cloud 34769; 407-892-0436.

Largo: Suncoast Model Railroad Club Open House—Jan. 11, 12. Pinellas Industrial Park, Bldg. A, 12355 62nd St. N. Sat. 10 a.m. to 5 p.m., Sun. 11 a.m. to 4 p.m. Free. Warren Jamison, 12351 93rd St. N., 33540; 813-581-3607.

Pompano Beach: Greenberg's Great Train, Dollhouse, and Toy Show—Jan. 11, 12. Broward Community College—North Campus, 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

Tampa: Greenberg's Great Train, Dollhouse, and Toy Show—Jan. 4, 5. State Fairgrounds, 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

Tampa: Railroad Prototype Modelers Meet—Jan. 25. Happy Hobo Hobby Shop, 4040 W. Waters Ave. 10 a.m. to 3 p.m. Free. Joseph Oates, 4007 Paddlewheel Dr., Brandon 33511; 813-681-6271.

GEORGIA

Atlanta: Model Train, Toy, and Railroadiana Show and Sale—Jan. 4. Marriott Hotel Northwest, I-75 and Windy Hill Rd. 10 a.m. to 4 p.m. \$3; 6 through 17, \$1; family \$6. Atlanta Model Train Shows, 3329 White Castle Way, Decatur 30034; 404-987-2773.

Atlanta: NMRA Southeastern Region Piedmont Div. Show and Convention—Jan. 18, 19. \$5; 6 through 16, \$2; under 6, scouts in uniform free. Rick J. Hemingway, 404-963-5632.

East Point: NMRA Southeastern Region Piedmont Div. Meet—Jan. 23. Summer Park Community Center, 1889 Lexington Ave. 7 to 10 p.m. Free. Lenny Polinsky, 404-968-0768.

Marietta: Cobb County Society of Ferroquinguologists Meet—Jan. 10, Feb. 14. C&S Bank Community Room, 730 p.m. Free. Jim Streeter, 812 Emerald Falls Rd., Woodstock 30188; 404-926-1063.

Marietta: NMRA Southeastern Region Piedmont Div. Meet—Jan. 14. Cobb County Community Library, 266 Roswell St. 7 to 9:30 p.m. Rick J. Hemingway, 404-963-5632.

Savannah: Coastal Rail Buffs Model Railroad Show—Jan. 18, 19. National Guard Armory, 1248 Eisenhower Dr. 11 a.m. to 5 p.m. \$3; sr. citizens, teens, \$2. Chuck Beaver, Box 9905, 31402; 912-236-4344 day or fax 236-7179.

ILLINOIS

Chicago: Smokey Mountain Model Railroad Club Open House—Jan. 4. 1507 N. Keystone. 7:30 p.m. to midnight. Free. E. Neuhaus, same address, 60651; 312-252-0722.

Des Plaines: North South Railroad Club Swap Meet—Jan. 26. Rand Park V.F.W., 2025 Dempster St.

9:30 a.m. to 2:30 p.m. \$2.50. Tom David, 15608 Rob Roy, Oak Forest 60452.

East Moline: Rock Island Southern O Scale Club Open House—Feb. 8, 9. 918 1/2 15th Ave. Sat. 10 a.m. to 4 p.m.; Sun. noon to 4 p.m. \$1; under 12 free. Wesley Melchin, 525 Dwight St., Kewanee 61443; 309-852-2328.

Glenview: NMRA Midwest Region North Shore and Western Div. Meet—Jan. 26, Feb. 23. Diederich Park Field House, 1 to 4:30 p.m. \$1. Jim Goettsche, 1814 Henley St., 60025; 708-724-0427.

Peoria: Illinois Valley and River City Railroad Clubs Train Fair—Feb. 16. Illinois Central College, Rts. 116 and 24. 11 a.m. to 3 p.m. \$2; under 13 free. Rick Dolanc, 4028 W. Hilmont, 61615; 309-692-0882.

Rockford: NMRA Midwest Region Rock River Valley Div. Meet—Jan. 5, Feb. 2. West Suburban Fire Dept., 3816 W. State St. 12:30 to 4:30 p.m. \$2; Joe Whinnery, 804 Stairview Ct., 61108; 815-398-8973.

Wheaton: Great Midwest Train Show—Jan. 12, Feb. 9. DuPage County Fairgrounds, Co. Farm Rd. and Manchester, 10 a.m. to 4 p.m. \$4; under 12 free w/adult. GATS, Ltd. Box 1745, Lombard 60148; 708-834-0653.

INDIANA

Highland: Illiana Train Club Open Meet—Jan. 22, Feb. 26. LARC W. Development Ct., 9600 Kennedy Ave. 7 to 9 p.m. \$1; members free. 219-924-5534 or 312-895-2273.

Indianapolis: Great American Train Show—Feb. 1, 2. Indiana State Fairgrounds, 1202 E. 38 St. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Indianapolis: Indianapolis Model Railroad Swap—Jan. 25. Beech Grove Benedictine Center, 1402 Southern Ave., Beech Grove, 11 a.m. to 4 p.m. \$2; family \$3. Carl Tomamichel, 222 S. 11th St., 46107; 317-786-1183.

Muncie: Muncie & Western Modular Club Swap Meet and Show—Feb. 29. Delaware County Fairgrounds, Memorial Bldg., 1210 N. Wheeling Ave. 11 a.m. to 4 p.m. \$2; under 12, \$1; family \$5. Lee Downey, 705 N. Nebo Rd., 47304; 317-286-0505 eve.

Richmond: All Trains Flea Market—Feb. 23. National Guard Armory, 1200 W. Main. 10 a.m. to 3 p.m. \$2; under 12 free. Larry Zeller, 4646 W. Hwy. 36, Piqua 45356; 513-773-7186.

KANSAS

Kansas City: Mid-America Train Meet—Feb. 16. Jack Reardon Civic Center, Fifth and Minnesota (I-70). 9 a.m. to 2 p.m. \$3; spouse, under 12 free. Lee Hansen, 315 Willow Way, Lee's Summit, MO 64063; 816-524-2444.

Kansas City: Wyandotte Train-O-Rama Train Meet—Feb. 22. Wyandotte County Fairgrounds, 1405 N. 98 St. 9 a.m. to 2 p.m. \$3; spouse, under 12 free. David L. Chronister, 8422 Barnett, 66112; 913-334-2982.

KENTUCKY

Lexington: Lionel Collectors Club of America Meet—Jan. 4. Continental Inn, Hwy. 60 and New Circle Rd. (I-75, exit 110). 10:30 a.m. to 2 p.m. \$4. Harry Overtoom, 3409 Fleetwood Dr., 40502; 606-268-1942; Winfrey Adkins, 873-2497; or Bill Crace, 299-2423.

MAINE

Augusta: Whitefield Lions Club Model Railroad and Dollhouse Show—Jan. 25. National Guard Armory, Western Ave. 10 a.m. to 4 p.m. \$2; under 12 free; family \$5. Richard T. Hagan, Rt. 1, Box 1930, Windsor 04363; 207-549-5526.

MARYLAND

Baltimore: Baltimore Society of Model Engineers Open House—Jan. 5, 12, 19, 26. 225 W. Saratoga St., 3rd flr. 1 to 5 p.m. 301-837-2763.

Baltimore: Triangle & Western Model Railroad Club Open House—Jan. 4, 5, 11, 12. 8622 Belair Rd. 1 to 6 p.m. Free. Ed Hess, same address, 21236; 301-256-9037 Tue., Thur. eve.

Cumberland: Maryland-West Virginia Model Railroad Assn. Open House—Jan. 5. Allegany County Fairgrounds, Rt. 220 S. 1 to 5 p.m. Free. Pete Wotring, 4 Burton Park Dr., Frostburg 21532; 301-689-3058.

Frederick: Frederick Model Railroad Club Open House—Jan. 5, 12, 19, 26. 423 E. Patrick St. 1 to 4 p.m. Free. Warren C. McClure, 61 Sherwood Dr., Walkersville 21793; 301-845-8410.

Frederick: Frederick Train and Toy Show—Feb. 2. Independent Fire Co., Rosemont Ave., Hwy. 15 N. 10 a.m. to 3 p.m. \$3; under 12 free. Rich DeLong, 41 Greenvale Rd., Westminster; 301-848-5458.

Odenton: Baltimore Annapolis Show—Jan. 12. Odenton Firehall, 9:30 a.m. to 2 p.m. \$3. Jim Hejl; 301-285-5809.

Pasadena: Riviera Beach Fire Dept. Garden—Jan. 4, 5. Firehouse, 8506 Fort Smallwood Rd. 1 to 3 and 7 to 9 p.m. Free. Ted Heimbuch, same address, 21122; 301-255-3636.

Timonium: Ellicott City Scale Model Railroad Assn. Train Show—Jan. 18, 19. State Fairgrounds, I-83, exit 17. 10 a.m. to 4 p.m. Both days \$5; 6 through 12, \$1. Howard Zane, 5236 Thunder Hill Rd., Columbia 21045; 301-730-1036; or Ken Young, 997-2166.

Timonium: Train Collections Association WB&A Chapter Meet—Feb. 29. Timonium Fairgrounds. 8:30 a.m. to 2 p.m. \$7. Don Wernz, 1302 Heather Hill Rd., Baltimore 21239-1414; 301-388-4516.

MASSACHUSETTS

Dedham: Mystic Valley Railway Society's Rail-A-Rama—Feb. 2. Biarritz Plaza, Rts. 1, 128, and I-A. 10 a.m. to 4 p.m. \$2; 5 through 12, \$1; under 5 free. Russ Ryko, Box 486, Hyde Park 02136; 617-361-4445.

Fall River: Old Colony and Fall River Railroad Museum Show—Jan. 19. Veterans Memorial Armory, 10 a.m. to 4 p.m. \$2; 5 through 12, 50 cents; under 5 free w/adult. Jay Chatterton, Box 3455, 02722; 508-673-7061.

Leominster: Leominster Train Meet—Jan. 26. Italian Center, 1000 Lancaster St. 9:30 a.m. to 3:30 p.m. \$3; under 12 free. Peter A. Barelli, 138 Hobbs Rd., Princeton 01541.

Wenham: Wenham Museum Model Railroad and Railfan Meet—Jan. 4. Bessie Boker School Auditorium, School St. 10 a.m. to 4 p.m. \$2; 6 through 14, \$1; family \$5. Wenham Museum, 132 Main St., 01984; 508-468-2377.

West Springfield: Amherst Railway Society Show—Feb. 8, 9. Eastern States Exposition, Better Living Center.

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Memorial Ave. 10 a.m. to 5 p.m. \$4; 5 to 11, \$1; under 5 free. Robert Buck, Box 718, Warren 01083-0718; 413-436-5318.

MICHIGAN

Ann Arbor: Ann Arbor Model Railroad Club Meet—Feb. 16. Ypsilanti High School, Hewitt and Packard Rd. 10 a.m. to 4 p.m. \$3; under 10 free w/adult. James O. Williams, 1612 Brookfield, 48103; 313-761-6994 day.

Dearborn: Allen Park Model Railroad Club Flea Market—Jan. 12. Dearborn Civic Center, Michigan Ave. at Greenfield. 11 a.m. to 4 p.m. \$2; under 12 free w/adult. A. Zombor, 12973 Wesley, Southgate 48195; 313-283-5060.

Hazel Park: Roundhouse Model Railroaders Swap and Shop—Feb. 2. Hazel Park Community Center, 620 W. Woodward Hts. 10 a.m. to 4 p.m. \$2; family \$5. Ray Walters, Box 146, 48030.

Jackson: Jackson Toy and Model Railroad Flea Market—Feb. 2. Jackson Crossing (formerly Paka Plaza). Noon to 4 p.m. Free. Gene Swain or Richard Thrums, 212 S. Mechanic St., 49201; 517-783-3317.

Lapeer: Lapeer Model Railroaders Flea Market—Feb. 23. American Legion Hall, Post 16, 1701 W. Genesee Rd. 10 a.m. to 4 p.m. \$2. Joe Biondo, 15680 Imlay City Rd., Capac 48014; 313-395-4966 eve.

Rochester Hills: Rochester Hills Museum Model and Toy Train Exhibit—Dec. 15 through Feb. 15. Rochester Hills Museum at Van Hoosen Farm. Wed. through Sun. 1 to 4 p.m. \$2; sr. citizens \$1; children 50 cents. Margaret Oderman or Patrick J. McKay, 1000 Rochester Hills Dr., 48309; 313-656-4663.

Saginaw: NMRA North Central Region Div. 7 Mid to Upper Michigan Area Meet—Jan. 12. First of America Bank, 5540 Dixie Hwy., Bridgeport. 2 p.m. Carl Goodman, 2065 Sunset Ln., 48604; 517-753-7940.

Taylor: Plymouth Yard Hobbies Train Show—Jan. 5. Sheridan Community Center, 12111 Pardee. 10 a.m. to 4 p.m. \$2; under 12, \$1. Robert Reckinger, 904 Starkweather, Plymouth 48170; 313-455-2030.

MINNESOTA

Minneapolis-St. Paul: NMRA Twin Cities Div. Clinics—Jan. 9. Everett McClay V. F. W. Post, 2731 E. 78 St., Bloomington. 7:30 p.m. Free. Ron Schutts, 5917 St. Johns Ave., Edina 55424; 612-929-2930.

St. Paul: Hennepin Overland Model Railroad Club Open House—Jan. 26. Feb. 23. 458 N. Lexington Pkwy. Sat. 9 a.m. to 5 p.m.; Sun. 1 to 5 p.m. Free. Gary L. Braasch, 816 82nd Ave. N., Brooklyn Park 55444-1705; 612-566-4222.

Woodbury: Greater East Area Model Railroad Club Flea Market—Jan. 25. Woodbury High School, 1425 School Dr. 10 a.m. to 3 p.m. \$4; under 12 free. Paul Napier, 6055 52nd St. N., Oakdale 55109; 612-777-9125.

MISSOURI

Kansas City: Great American Train Show—Feb. 22, 23. Kansas City Municipal Auditorium, 14th and Central Ave. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

St. Charles: St. Charles Model Railroad Club Train Fair, Show, and Swap Meet—Jan. 25. Stegton

Restaurant, I-70 and S. Fifth St. 9 a.m. to 2 p.m. \$1.50; under 12 free w/adult. Jim Monroe, 129 Hunter's Ridge, 63301; 314-723-3115.

St. Joseph: Big Boys' Toys Train Show—Feb. 1, 2. Holiday Inn, 102 S. Third St. Sat. 11 a.m. to 6 p.m. Sun. 11 a.m. to 5 p.m. \$2; under 11 free w/adult. Curt Gardner, 707 Edmond St., 64501; 816-232-0948.

St. Louis: Great American Train Show—Jan. 18, 19. Cervantes-St. Louis Convention Center, 801 Convention Plaza. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

MONTANA

Miles City: Eastern Montana Society of Model Engineers Show and Swap Meet—Feb. 15, 16. Miles Community College, Rm. 106. Sat. 11 a.m. to 7 p.m.; Sun. noon to 5 p.m. \$1; under 12 free w/adult. Leonard Smith, 406-232-6408 or Randy Parker, 606 Truscott, 59301.

NEW JERSEY

Bricktown: Ocean County Model and Toy Train Show and Sale—Feb. 16. Elks Hall, Old Hooper Ave. 10 a.m. to 3 p.m. \$2.50; under 12 free w/adult. Louis DiGirolamo, 5 S. Beer St., Holmdel 07733; 908-264-1516 or 739-9587.

Edison: Greenberg's Great Train, Dollhouse, and Toy Show—Jan. 25, 26. Raritan Center Expo Hall. 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

Iselin-Woodbridge: K's Toy Train Show—Jan. 5. Sheraton at Woodbridge Place & Tower. 10 a.m. to 2 p.m. \$4.50. James Krakowiecki, 314 Perrine Ave., Piscataway 08854; 908-463-8696.

Jamesburg: Märklin Enthusiasts of America Swap Meet—Feb. 2. Holiday Inn, Turnpike, exit 8A. 10 a.m. to 3 p.m. \$4. Steve Seyer, 4444 Parkland Dr., Allentown, PA 18104; 215-398-3021.

Oaklyn: New Jersey Div. Meet—Jan. 18. St. Mark's Lutheran Church, 1 Haddon Ave. 1 to 4 p.m. Mert Gardner, 110 Otter Branch Dr., Magnolia 08049; 609-784-4263.

Titusville: Titusville Train Collectors Meet—Jan. 18. Feb. 15. Union Firehall, Rt. 29 N. off I-95, exit 1. 7 a.m. to 1 p.m. \$2; under 12 free. Herman Lotstein, 21-7 Potters Pl., Holland, PA 18966; 215-968-7630.

Wayne: Bergen-Passaic Toy and Train Show—Jan. 26. Wayne P.A.L. Hall. 9 a.m. to 2 p.m. \$5. 718-229-6282.

Winslow: Winslow Junction Scale Train and Railroadiana Meet—Jan. 5. Winslow Firehall, Hall and Hay Sts. 10 a.m. to 3 p.m. \$3; family \$5. Bill Powell, 306 Broad St., Williamstown 08094; 609-728-1327.

NEW YORK

Amityville: Suffolk Nationals Train Meet—Jan. 26, Feb. 16. American Legion Hall, Post 1015, Park Ave. 9 a.m. to 1 p.m. \$3. Ernie Knudsen, 516-691-7628.

Bethpage: Grumman Train Show—Jan. 11. 800 S. Oyster Bay Rd., Bldg. 28. 11 a.m. to 3:30 p.m. Free. Stephen Williams, 137-33 Bedell St., Springfield Gardens 11413; 516-575-2079 day.

East Islip: Brooklyn Model Railroad Club All Gauge Meet—Jan. 19. Knights of Columbus Hall, Hawthorne Ave.

9 a.m. to 1 p.m. \$3; under 10 free; family \$5. Fred Graf, 9221 Foster Ave., Brooklyn 11236-1717; 718-257-3571.

Elmira: Cherkyn County Historical Society Exhibition—Dec. 7 through Feb. 22. 415 E. Water St. Tue. through Fri. noon to 4 p.m., Sat. 1 to 4 p.m. Free. Constance B. Barone, same address 14901; 607-734-4167.

Elmont: St. Vincent DePaul Train, Toy, Doll Miniature, and Craft Show—Jan. 12. St. Vincent DePaul School Auditorium, 1510 DePaul St. 10 a.m. to 4 p.m. \$4; sr. citizens \$2; under 12 free w/adult. Frank DeOrio, same address; 516-352-2127.

Franklin Square: Railroad Lines Train Meet—Feb. 23. V. F. W. Hall, 68 Lincoln Rd. 9 a.m. to 1 p.m. \$3; under 12 free w/adult. Rae Romano, 237 Rintin St., 11010; 516-486-6658.

Lake Ronkonkoma: Wrong Island Railroad Train Layout—Jan. 4, 5, 11, 12, 18, 19, 25, 26. Feb. 1, 2, 8, 9. 679 Hawkins Ave. Noon to 5 p.m. \$2.50; sr. citizens, under 12: \$1.50. 516-467-1222.

Lindenhurst: Northern Spur Train Swap Meet—Jan. 5. Knights of Columbus Hall, 400 S. Broadway. 9 a.m. to 1 p.m. \$3; under 12 free w/adult. Carmelo Sannetta, 29 Tappan Ave., Babylon 11702; 516-666-6855.

Patchogue: Patchogue Model Railroad Engineers Open House—Jan. 19. Four Sisters Community Center, 96 S. Ocean Ave. 10 a.m. to 4 p.m. Free. M. J. Burke, Box 314, Remsenburg 11960; 516-325-0273.

Philmont: Lionel Collectors Club of America Meet—Jan. 4. Sacred Heart Church Hall, Main St. and Ark. 10 a.m. to 2 p.m. \$3. George Tebott, Box 149, Spencertown 12165; Ron Szczepanski, 518-377-5118; or Gary Whitman, 914-229-6232.

Schenectady: Mohawk and Western Railway Co. Train Show—Feb. 2. Ramada Inn, Nott St. 9 a.m. to 3 p.m. \$2; under 12 free. Chuck Rector, 1828 Helderberg Ave., 12306; 518-355-5889.

Syracuse: Syracuse Model Railroad Club Open House and Meet—Feb. 16. Eastwood American Legion Post 1276, James St. at Nichols Ave. 10 a.m. to 4 p.m. \$2; under 13, \$1; family \$5. Ken May, 73 1/2 E. Oneida St., No. 114, Baldwinsville 13027; 315-635-3123.

Troy: Rensselaer Model Railroad Society Open House—Jan. 3, 4, 10, 11, 17, 18, 24, 25, 31. Davison Hall basement, RPI Campus. 10 a.m. to 4 p.m. \$3. Joe Sagmore, RMRRS Rensselaer Union, RPI, 12180-3590; 518-276-2764.

White Plains: Great Westchester Toy and Train Show—Feb. 9. Westchester Co. Center. 9 a.m. to 3 p.m. 518-392-2660.

NORTH CAROLINA

Concord: Train and Toy Show—Jan. 25. National Guard Armory, Hwy. 49 and Old Charlotte Rd. 9 a.m. to 4 p.m. \$3. Carolina Hobby Expo, 3452 Odell School Rd., 28027; 704-786-8373.

Fayetteville: Sandhills Toy and Train Show—Feb. 15. Cumberland Expo Center, Hwy. 301 S. 9 a.m. to 5 p.m. \$3. Carolina Hobby Expo, 3452 Odell School Rd., Concord 28027; 704-786-8373.



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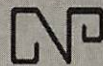


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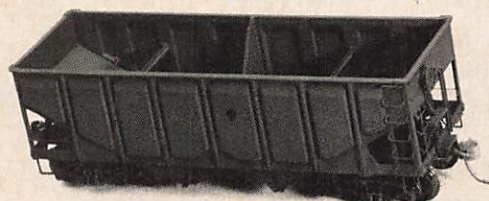
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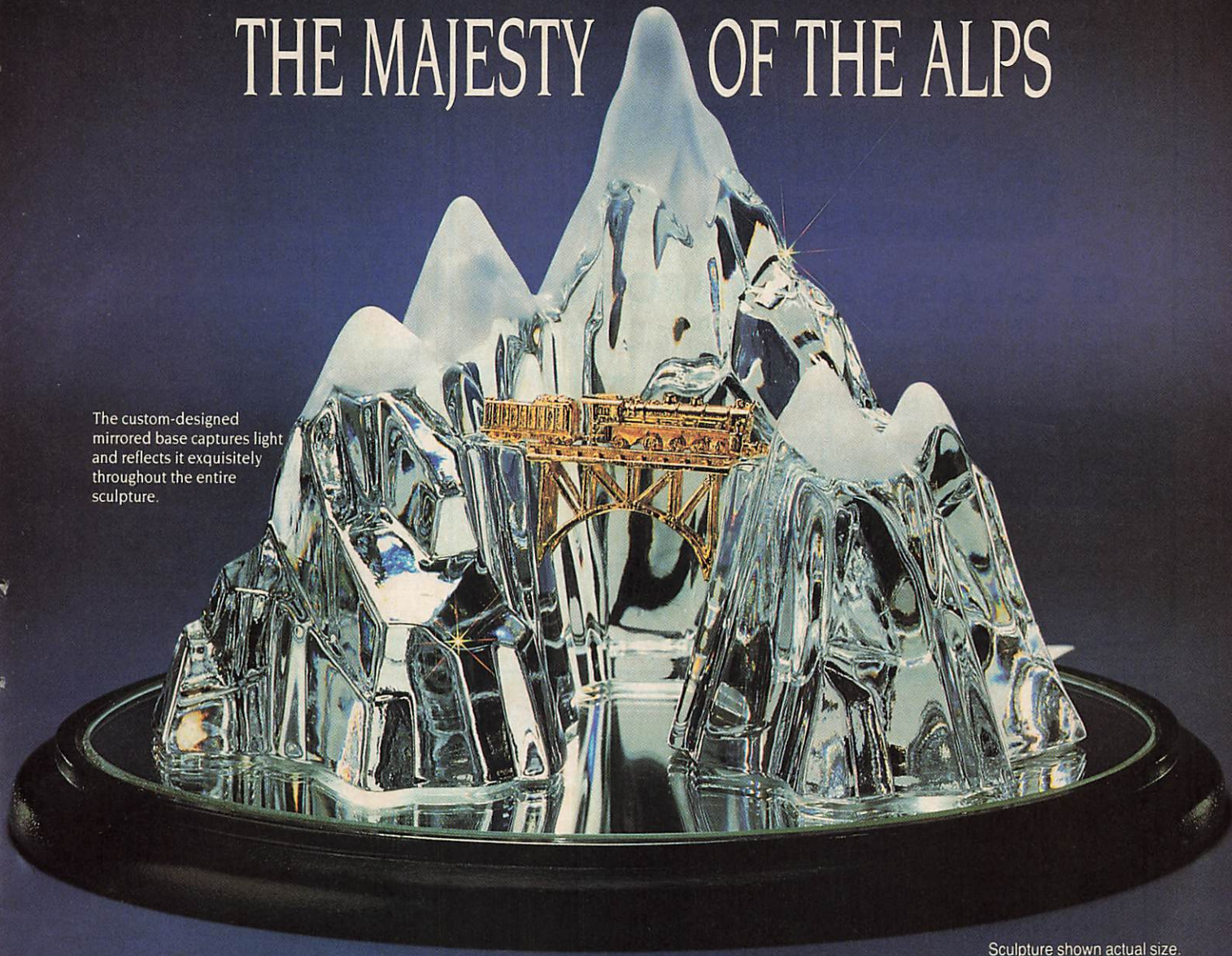
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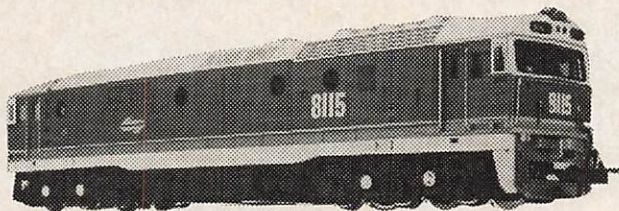
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Raleigh: North State Toy and Train Show—Jan. 18, 19. State Fairgrounds, 1025 Blueridge Rd. Sat. 9 a.m. to 5 p.m.; Sun. 10 a.m. to 4:30 p.m. \$4. Carolina Hobby Expo, 3452 Odell School Rd., Concord 28027; 704-786-8373.

OHIO

Canton: Classic Trains and Exhibitions Train and Toy Show—Jan. 26. Canton Hilton, 320 Market Ave. S. 10 a.m. to 4 p.m. \$2; under 13 free. Glenn Groff, 3385 Brigadoon Cir. S.W., Dalton 44618; 216-833-2582 eve. or Jon Ulbright, 262-7488.

Cincinnati: Great American Train Show—Feb. 8, 9. Cincinnati Convention Center, Sixth and Elm Sts. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Cleveland: Westpark Model Railroad Swap and Shop—Jan. 4. U.A.W. Hall, 5615 Chevrolet Blvd., Parma. 8:30 a.m. to 4 p.m. 8:30 a.m.; \$6; 10 a.m.; \$3; noon \$2; 6 through 15, \$1. Lewis Warren, 15313 Willman Ave., 44135; 216-676-8120.

Eastlake: Eastlake Train Show—Jan. 19. 34041 Stevens Blvd. 10 a.m. to 4 p.m. \$2.50; sr. citizens, students \$2; family \$5. Bob Frieden, 9695 Chillicothe Rd., Kirtland 44094; 216-256-1749.

Euclid: Euclid High Train Show—Feb. 2. 651 E. 222 St. 10 a.m. to 4 p.m. \$2.50; sr. citizens, students \$2; family \$5. Bob Frieden, 9695 Chillicothe Rd., Kirtland 44094; 216-256-1749.

Kirtland: Kirtland High Train Show—Feb. 22, 23. 9152 Chillicothe Rd. 10 a.m. to 4 p.m. \$2.50; sr. citizens, students \$2; family \$5. Bob Frieden, 9695 Chillicothe Rd., 44094; 216-256-1749.

New Philadelphia: Classic Trains and Exhibitions Train and Toy Show—Feb. 16. Kent State University—Tuscarawas Campus, Student Union, University Dr. 10 a.m. to 4 p.m. \$2; under 13 free. Glenn Groff, 3385 Brigadoon Cir. S.W., Dalton 44618; 216-833-2582 eve. or Jon Ulbright, 262-7488.

OKLAHOMA

Tulsa: Great American Train Show—Jan. 11, 12. Tulsa Convention Center, 100 Civic Center. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

OREGON

Portland: Great American Train Show—Feb. 1, 2. Multnomah County Expo Center, 2060 N. Marine Dr. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

PENNSYLVANIA

Adamsburg: Adamsburg and Community V.F.D. Train Show—Jan. 5. Rt. 30 E. off Pa. Tnpk, exit 7. 10 a.m. to 4 p.m. \$2; under 13 free; family \$5. Thomas Anthony, Box 92, 15611; 412-527-6250.

Ambridge: Model Railroad Open House—Jan. 4, 5, 11, 12, 18, 19, 25, 26. 287 Fourth St., 2nd fl., rear. Noon to 6 p.m. \$2; children 50 cents; under 6 free. Lee Ryglinski, 4028 Forest Dr., Aliquippa 15001; 412-266-4787.

Emmaus: East Penn Model Railroad Society Open House—Jan. 4, 5. V.F.W. hall, 3rd fl., Fifth and Jubilee St. Sat. 1 to 9 p.m.; Sun. 1 to 6 p.m. Free. Jeffrey Semprini, Rt. 2, Box 693, Briensville 18031; 215-285-6316.

Fort Washington: GATSMELines Model Railroad Club Open House—Jan. 4, 5, 18, 19. Prospect and Madison Aves., basement, next to New Horizons Montessori School. 1 to 5 p.m. Free. Ed Schaller, 640 Rynnmede Ave., Jenkintown 19046; 215-886-7999.

Freedom: Beaver County Model Railroad and Historical Society Open House—Jan. 3, 4, 5. Century National Bank, Third Ave. and Sixth St. Fri. 6 to 9 p.m.; Sat. 1 to 9 p.m.; Sun. 1 to 6 p.m. Free. Joseph P. Ricker, 245 Wilson Ave., Beaver 15009; 412-774-5414.

Gilbertsville: Gilbertsville Train-O-Rama—Jan. 12, Feb. 9. Gilbertsville Firehouse, Rts. 73 and 100. 9 a.m. to 2 p.m. \$2; under 12 free w/adult. Mary Preudhomme, Rt. 7, Box 792, Boyertown 19512; 215-367-7857.

Lansdale: North Pennsylvania Railroad Co. Model Railroad Show—Jan. 11, 12. 400 N. Pierce St. Noon to 6 p.m. James L. Maurer, Box 563, 19446; 215-362-8390 or 855-0102.

Monroeville: Greenberg's Great Train, Dollhouse, and Toy Show—Feb. 15, 16. Pittsburgh Expo Mart. 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

New Castle: Penn-Ohio Train Expo 92 Model Railroad and Railroadiana Show—Feb. 2. Scottish Rite Cathedral. 10 a.m. to 4 p.m. \$3; under 13 free. Ric Tritsch, 412-656-1200.

Phoenixville: Schuylkill Valley Model Railroad Open House—Jan. 11, 12. 400 S. Main St. 1 to 5 p.m. Free. Paul Hoerner, Box 354, 19460.

Pittsburgh: Pittsburgh Model Railroad Historical Society Display—Jan. 3, 4, 5, 10, 11, 12. 5507 Lakeside Dr., Gibsonia. Fri. 6 to 10 p.m.; Sat., Sun. 11 a.m. to 5 p.m. \$3; under 13, \$1. William Humphrey, same address, 15044; 412-444-6944.

Richboro: Abington Lines Model Railroad Club Open House—Jan. 4, 5. 2066 Second St. Pike. 1 to 5 p.m. Free. Mike Junod, 207 Windsor Ave., Southampton 18966; 215-364-1719 eve.

Souderton: Logan Model Railroad Club Open House—Jan. 4, 5. Souderton Train Station, Broad and Main St., Rt. 113. 1 to 5 p.m. Free. Walter B. Curl Jr., 131 W. Eighth Ave., Conshohocken 19428; 215-828-5856.

TENNESSEE

Nashville: Great American Train Show—Jan. 25, 26. Nashville Municipal Auditorium, 417 Fourth Ave. N. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

TEXAS

Houston: Great American Train Show—Jan. 4, 5. George R. Brown Convention Center, 1001 Convention Center Blvd. Sat. 1 to 7 p.m.; Sun. 11 a.m. to 5 p.m. \$4.50; under 12 free w/adult. GATS Ltd., 708-834-0652.

Plano: Dallas Area Train Show—Jan. 18, 19. Central Expressway and Spring Creek Pkwy. 10 a.m. to 5 p.m. \$4; under 13 free. John Markl, 1117 S. Travis, Sherman 75090; 214-893-3011 eve.

San Antonio: San Antonio Model Railroad Assn. Jamboree—Jan. 18. Seven Oaks Hotel and Conference

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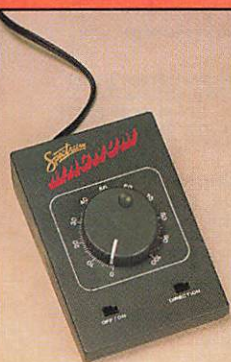
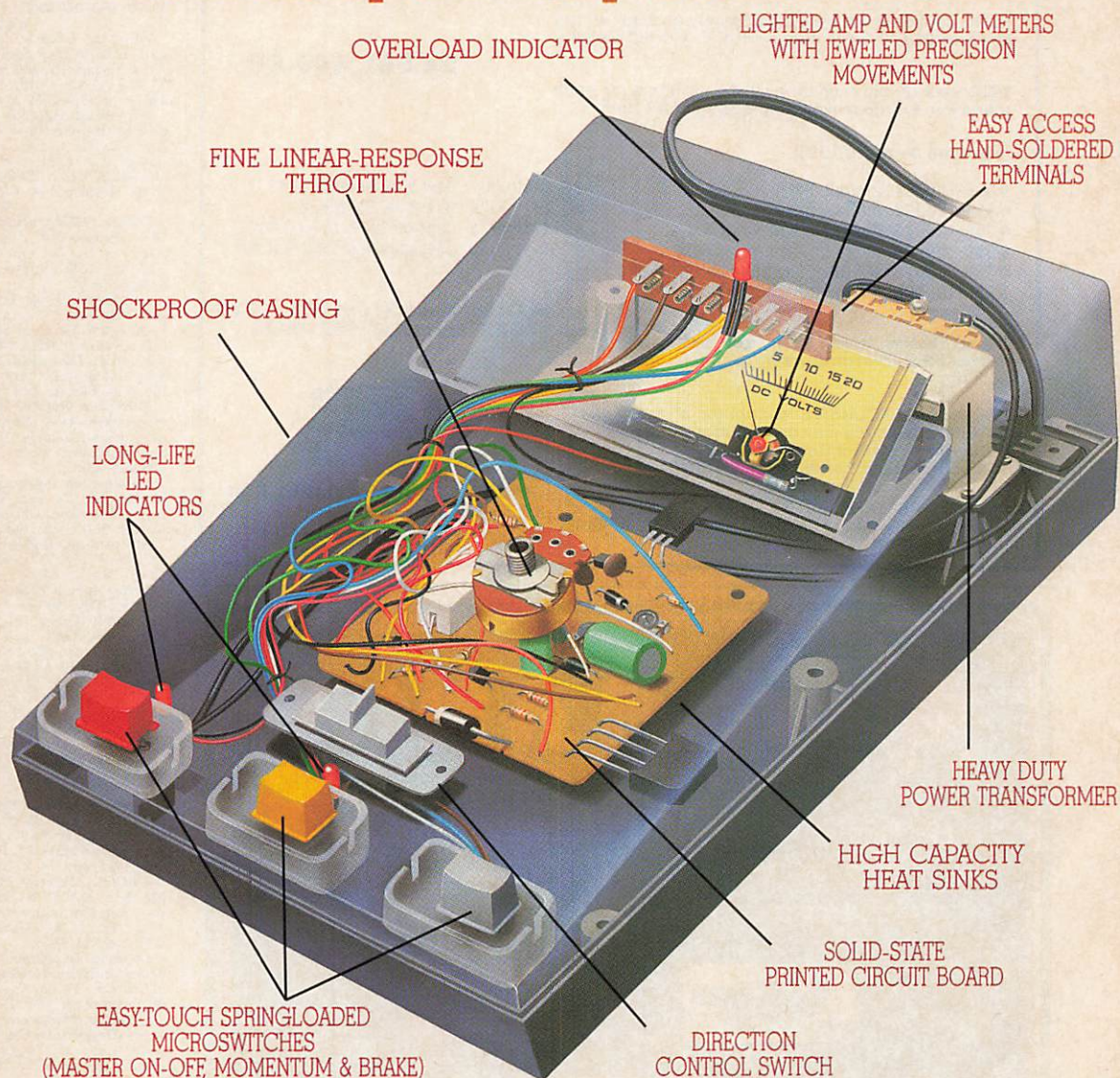
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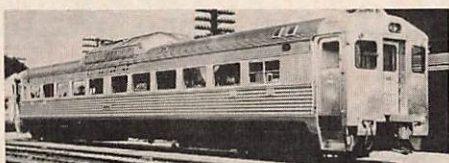
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UTAH

American Fork: Central Utah Model Railroad Fair—Jan. 25. National Guard Armory, 251 S. 200 E. 9 a.m. to 6 p.m. \$1; under 12 free. Mike Liljenquist, 1051 N. 1005 W., Orem 84057; 801-226-7947.

VIRGINIA

Vienna: Northern Virginia Model Railroaders Open House—Jan. 18, Feb. 15. Washington & Old Dominion Station, Dominion and Ayr Hill Rds. 1 to 5 p.m.; 703-938-5157 Tue. eve.

Virginia Beach: Greenberg's Great Train, Dollhouse, and Toy Show—Jan. 4, 5. Virginia Beach Convention Center. 11 a.m. to 5 p.m. \$5; under 12 free w/adult. Greenberg Shows, 7566 Main St., Sykesville, MD 21784; 410-795-7447.

WASHINGTON

Spokane: Model Railroad Swap Meet—Feb. 16. Spokane Youth Sports Bingo, 2230 E. Sprague. 10 a.m. to 4 p.m. \$2; under 12 free. Marcie Nelson, 807 E. Vicksburg 99208; 509-467-8348 eve.

WEST VIRGINIA

Weirton: Classic Trains and Exhibitions Train and Antique Toy Show—Feb. 9. Best Western Inn, 350 Three Springs Dr. and Hwy. 22. 10 a.m. to 4 p.m. \$2; under 13 free. Glenn Groff, 3385 Brigadoon Cir. S.W., Dalton 44618; 216-833-2582 eve. or Jon Ulbright, 262-7488.

Wheeling: Oglebay Resort Model Railroad, Toy, and Dollhouse Show—Jan. 18, 19. Wilson Lodge, Oglebay Park. Sat. 10 a.m. to 6 p.m.; Sun. 10 a.m. to 5 p.m. \$4; 6 through 12, \$1. Mike or Chris Petros, Third and Marshall, McMechen 26040; 304-233-2040 or 232-9657, or Lew Warren, 15313 Willman Ave., Cleveland, OH; 216-676-8120.

WISCONSIN

Beloit: NMRA Midwest Region Rock River Valley Div. Show—Feb. 15, 16. Beloit Mall, Riverside and Henry St. Sat. 10 a.m. to 5 p.m.; Sun. noon to 5 p.m. Lyle Fleener, 10530 Jubilee Dr., Machesney Park, IL 61111; 815-633-5679.

LaCrosse: Great Tri-State Rail-Sale—Jan. 18. Days Inn, I-90, exit 2. 9 a.m. to 3 p.m. \$1; under 12 free. Phil Lamke, 928 Division St. 54601; 608-782-7901.

Madison: NMRA Midwest Region South Central Wisconsin Div. Model Railroad School—Jan. 5. Fitchburg Community Center, 5510 E. Lacy Rd. 1 p.m. Free. Radleigh Becker, 444 Hilltop Dr., 53711; 608-231-1817.

Madison: NMRA Midwest Region South Central Wisconsin Div. Show and Sale—Feb. 8, 9. Dane County Fairgrounds. 10 a.m. to 5 p.m. \$4; under 12, \$2. Sue and Larry Bunce, 199 N. Kerch, Brooklyn 53521; 608-455-4233.

Milwaukee: Association of Model Railroad Clubs Show—Jan. 24, Feb. 28. Milwaukee School of Engineering, Auditorium, 1047 N. Broadway St. 7 p.m. Free. Jim Roeber, 130 Heide Rd., Thiensville 53092; 414-242-5547.

Milwaukee: BadgerLand S Gaugers Swap Meet—Jan. 26, Feb. 23. Celebrity Red Carpet Lanes, 5727 S. 27 St. 10 a.m. to 1:30 p.m. \$1. Jim Brown; 414-662-3768.

Milwaukee: NMRA Midwest Region Wisconsin Southeastern Div. Meet—Jan. 19, Feb. 16. University of Wisconsin-Milwaukee, Physics Bldg., Kenwood Blvd. and Cramer St. 12:30 to 6 p.m. LaRoya Chisley, 7062 N. 38 Ct., 53209; 414-352-3546.

West Bend: Association of Model Railroad Clubs Show—Jan. 11, 12. West Bend Outlet Mall, 180 Island Ave. 10 a.m. to 5 p.m. Free. Dave Rohr, 18635 W. Parkview Dr., Brookfield 53005; 414-783-5663.

West Bend: Kettle Moraine Ballast Scorers Railroad Club Open House—Jan. 12. West Bend Recreation Center, 724 Elm St. 10 a.m. to 5 p.m. \$2; sr. citizens, under 12, \$1. Don Wick, 242 S. Seventh Ave. 53095; 414-338-6021.

CANADA

Ontario, Barrie: Barrie Allandale Railway Modelers Show—Feb. 22, 23. Barrie Armories, 37 Parkside Dr. Sat. 11 a.m. to 4:30 p.m.; Sun. 11 a.m. to 3 p.m. \$3; sr. citizens, students \$2; family \$5. Terry Everett, Box 774, Wallace Ave., No. 2, Stroud L0L 2M0; 705-436-5771.

Ontario, Barrie: Barrie Model Railroaders Flea Market—Feb. 8. St. George's Anglican Church, Burton Ave. and Granville St. 10 a.m. to 3 p.m. \$3; children 75 cents; family \$7. Maurice Wagner, 299 Pine Dr., L4N 4J3; 705-721-8836.

Ontario, Brantford: NMRA Canada NFR WOD Div. Show and Flea Market—Feb. 2. North Park High School, N. Park St. 11 a.m. to 4 p.m. \$2; under 12 free. Gord King, 90 Prospect St., Port Dover N0A 1N1; 519-583-3204.

Ontario, Mississauga: Erin Mills Model Railroad Assn. Beginners Clinic—Jan. 25. St. Andrews Presbyterian Church, 293 Queen St., South Streetsville. 12:30 to 5 p.m. \$6; under 13, \$3. Pat Konkle, 2233 Blue Beech Cres. 820-6114.

Ontario, Mississauga: Erin Mills Model Railroad Assn. Beginners Clinic—Feb. 1. Sheridan United Church, 2581 Truscott Dr., Clarkson. 12:30 to 5 p.m. \$6; under 13, \$3. Pat Konkle, 2233 Blue Beech Cres. 820-6114.

Ontario, Toronto: Erin Mills Model Railroad Assn. Hobby Show—Feb. 28, 29, Mar. 1. Canadian National Exhibition, Automotive Bldg. 3223 Chokecherry Cres., Mississauga, L5L 1B1.

OVERSEAS

Australia, Victoria, Melbourne: Australian Model Railway Assn. Victorian Branch Exhibition—Mar. 6, 7, 8, 9. Camberwell Centre. Fri., Sat. 10 a.m. to 10 p.m.; Sun., Mon. 10 a.m. to 6 p.m. \$5; children, pensioners \$2. John J. Harry, 68 Lahona Ave., Bentleigh E., Victoria 3165; 03-570-4406.

HOBBY ORGANIZATIONS

LGB Model Railroad Club, Box 26, Baden, PA 15005.
Märklin Enthusiasts of America, Box 1588, Granbury, TX 76048; Tim Eckert, 817-326-2523.

National Model Railroad Association, 4121 Cromwell Rd., Chattanooga, TN 37421; 615-892-2846.

Toy Train Operating Society, Suite 408, 25 W. Walnut St., Pasadena, CA 91103; 818-578-0673.

Train Collectors Association, Box 248, Strasburg, PA 17579. ☐



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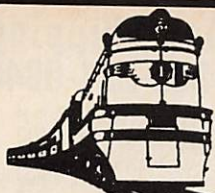
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Super Sale.....398.99
2020 0-4-0 Locomotive.....119.99
2028D Blue Mogul w/Tender.....SALE 450.00
2030E Locomotive Loco & beige.....229.95
2033 Elec. Loco/Overhead Power.....225.00
2040 The Crocodile Locomotive.....Sale 359.99
2043 RHB Electric Loco GE 4-4-11.....475.00
2051 2-Wheel Truck Red Diesel Loco.....249.99
2051S Diesel w/Horn & Diesel Sound
Special Rare.....550.00
2055 White Pass Yukon Diesel Loco.....409.95
2060H Diesel Loco w/Signal Horn.....159.99
2065 The Pair, Galloping Geese, Power &
Dummy.....Rare 795.00
2073D Tank Loco w/smoke.....SALE 175.00
2074D Spreewald Loco w/smoke.....SALE 275.00
2076D Steam Loco w/Lights.....SALE 150.00
2076D Steam Loco w/Lights.....146.99
2078 Europe 0-6-0 Green Shunter Loco 232.95
2080S Tank Loco w/sound/smoke SALE 495.00
2085D 0-6-0 Mallet Loco w/Smoke/Sale 479.99
2090N Diesel Loco, no box.....69.99
2090N Circus White Diesel Custom Loco 89.99
2096S Diesel Loco w/Sound, red & beige 482.99
2035 Streetcar, yel. pwd.....159.99
2140 Swiss Green Crocodile.....RARE 598.95
2146 Swiss Elect. Rock Loco Blue/Beige.....289.99
2171D Lillertalbach Austrian Steam Loco.....212.95
22022 Trolley Set Power & Dummy
Blue/White.....249.99

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800-221-0846

LGB SUPER CLOSETOUT SALE

Super Buy 2090N Diesel Loco Yel No Orig.
Box SALE 69.99
Super Buy Flat Car w/Truck Transport
No Orig. Box.....SALE 29.99
Super Buy Green Flat Car w/Circus Case
No Orig. Box.....SALE 26.99
Super Buy Short Mining Barrel Car, No Barrels
No Box.....SALE 12.99
Super Buy Extra Oil Barrels.....EACH 1.00
Super Buy 7 Circus Animals w/Cage.....9.99
Lion, Tiger, Elephant, Rhino, Giraffe.....EACH 2.95

LGB PASSENGER CARS

1982 Annual Car to Jubilee Set.....Rare 175.00
1983 Annual Car to Jubilee Set.....Rare 275.00
1984 Annual Car to Jubilee Set.....Rare 275.00
1985 Annual Car to Jubilee Set.....Rare 100.00
2064 Rail Car Red.....SALE 185.00
3006 U.S. Dodge City Pass Coach.....Disc 75.00
3007 Coach, brown Zillertal.....Super Sale 39.99
3010 Coach w/Clerestory Roof, green.....43.99
3011 Coach, red & beige.....43.99
3013 Dining Car, blue ornamental.....47.99

3013SLO 1986 Green Schweiger Diner Car

Rare Sale 98.00 125.00
3013SB 1987 Blue Schweiger Diner Car
Very Rare, SPECIAL SALE.....89.99
3015 Coach, blue & beige.....45.99
3016 Zillertalbahn Pass Coach.....52.99
3019 Baggage Car w/Electric Pickup.....62.99
3020 Spreewald Coach.....NEW 53.99
3025 RHB Swiss Open Tour Obs.....46.99
3030 Coach Lighting Kit.....3.95
3031 Red Tail Lighting Kit.....3.95
3036 New Circus Car.....53.99
3040 Coach, green.....46.99
3041 Carnival Excursion Pass, red.....18.99
3060 Coach, green Rare Closetout.....69.00
3060B 750th Anniv. Berlin Pass.

Closet Out.....RARE 119.99

3061 Barmer Mt. Coach, brown.....NEW 67.99
3063 Coach red, red-wheel Disc Super Sale 69.99
3064 Coach, red & beige, red-wheel SALE 69.99
3068 Swiss Restaurant Car RHB.....Sale 229.99
3070 Coach green.....77.99
3071 Passenger Car w/Front Set.....SALE 65.00
3072 Florida Boy Pass Car.....Super Sale 69.99
3073 DR Long Pass Car, red/yel.....77.99

3080 U.S. Coach, yellow/silver Very

Rare Discontinued.....275.00
3081 U.S. Comb. yel/sil.....Closetout 99.00
3081E2 Pennsy Green Combine Sale.....69.99
3082 Denver Rio G. Coach yel/sil.....Sale 79.99
3083 Denver Rio G. Comb. yel/sil.....Sale 79.99
3106 Wurttemberg Pass Coach.....40.99
3107 Zillertalbahn Pass Coach.....43.99
3150 150th Anniv. Comm. Pass Car, red.....49.99
3167 RHB Large Green Kombi Coach.....169.99
3172 DB 8 Wheel Pass Krombacher Beer 83.95
3180 Pass Coach red/silver Roof (Mogul) 73.99
3181 Comb. red/silver Roof (Mogul).....73.99
3207 Austrian Cadolzburg Pass Bulb 760.46.95
3264 Swiss 8 Whl Coach Blu/Beige.....76.95
3907 LGB 100th Anniv. Austrian.....45.95
4075 US Caboose red/sil Add to 3180, 3181 Rare
Discontinued, Very Limited.....200.00

LGB FREIGHT CARS

3530 Catenary Tower Repair Wagon Car.....24.99
4002 Cabel-Union Car w/2 Coils Disc. Rare 125.00
4003 Container Car Scarce.....Closetout 35.00
4010 Green Low Side Gondola.....21.99
4011 Covered Gondola Working Hatches 35.99
4021 Gondola w/Working Doors.....27.99
4023 Low Side Gondola w/Ramp.....NEW 27.99
4024 High-Sided Wagon w/platform SALE 29.95
4025 RHB Cement Bulk Carlin Stock.....59.99
4028 Kronenberg Beer Car Super Closetout 49.99
4028B Ltd. Edit. Prussia Exotic Mural Car 69.99
4029 Boissons Soda Box Car.....SALE 49.99
4030 Box Car, brown.....37.99
4031 Pepsi Cola, Box Car Disc.....Scarce 89.99
4072C Famous Original Coca Cola Box Car
SPECIAL BUY BLOWOUT 425.00

4071 REA Reeler Car built 1984 Very Rare 695.00

4031B 750th Anniv. Berlin Box Car

Rare Close Out.....SALE 89.99 110.00
4033 Chiquita Banana Box Car.....Disc. 89.99
4035 Freight Car Brown Box Car.....Disc. 59.99
4036 Circus Wagon.....Sale 42.99
4037 Circus Gondola w/Caravan Super Sale 28.99
4038 Circus Flat w/Animal Cage Wagon.....39.99
4040B British Petro Tank Car Super Sale 42.99
4040C BSAF Tank Car, silver & black.....49.99
4040E Esso Tank Car, red & white.....49.99
4040L Leuna Tank Car, yellow.....SALE 42.99
4040S Shell Tank Car, yellow.....42.99
4041 Hopper Car, orange.....Disc. Rare 95.00
4042 Crane Car, yel.....Sale 59.95
4043 Mining Car, red & black.....15.99
4044 Iron Ore Car, brown.....15.99
4045 Bulkhead Flat Car, 6' long.....13.99
4047 Single Cask Wine Vat Car.....18.99
4049 Operating Searchlight Car.....82.99

4055 Cement Mixer Rotary Work Car.....46.95

4059 Auto Transport Car w/2 Mercedes
Discontinued, Rare.....89.99
4061 U.S. Low Side Gondola, red/black.....38.99
4062 High-Sided Wagon, 8-Wheel.....SALE 43.95
4063 Covered Goods Wagon, 8-Wheel SALE 40.00
4065 U.S. Caboose, red.....48.99
4065 U.S. Caboose, black, collect. item 100.00
4066 U.S. Long Log Car, green.....49.99
4067 U.S. Box Car, Denver & Rio Grande
Western.....Closetout 69.99 75.00
4067C Custom Circus Box Car.....125.00
4063C Custom Circus Elephant Transport 125.00

4668C Custom Circus Stock Car.....125.00

4021R Rio Grande Red Gondola Rare.....100.00

4021B Rio Grande Blue Gondola.....Rare 125.00

4068 U.S. Cattle Car, D&RGW, green.....55.99

4069 Flat Car w/2-20' containers

Closetout Sale 49.99 60.00

4070 U.S. Budweiser Beer Car.....Disc. 250.00

4072 U.S. Miller Beer Reeler Car Disc.....59.99

4073 U.S. Gondola, D&RGW, 4-wheel trks 43.99

4073 High-Sided Wagon, 4-Axle.....SALE 35.00

4074 U.S. Pabst Beer Reeler Disc. Scarce 89.99

4075 US 4 axle Caboose D&RGW.....Rare 200.00

4076 US 4 axle hopper car w/coal load.....64.99

4078 Lake George Boulder 8 Whl Pulpwood

Log Car.....64.95

4080 US 4 axle Conoco Car tank car.....64.99

4090 Lake George Boulder 8 WH Bulkhead

Box Car.....64.95

4103 P&O 20, Single Container Car.....39.99

4110 Low Sided Gray Gondola.....27.95

4111 Covered Hinged Hatches Gon.....34.95

4124 Swiss MOB Brown Hi Sided Gondola.....34.95

4128 Colorful Flowers Freight Car.....53.99

4131 Famous Lowenbrau Beer Box Car.....39.99

4135S Box Car w/Elect. Steam Sound.....100.00

4141 Self Unloading OEG hopper car NEW 39.99

4165 Oklahoma Circus Caboose red/white.....59.95

4167 Yukon Box Car, brown.....Scarce 75.00

4168 Yukon Stock Car, yel.....Scarce 75.00

4169 U.S. 8 Wheel Flat Car w/Lumber NEW 49.99

4174 Denver Rio Grande Reeler yel/bl.....64.95

4180 Red Crown 8 WH silv/red Tank Car.....74.95

4228 Henniez Mineral Water Freight.....53.95

4328 Covered Freight Swiss Appenzel Car 53.95

LGB LIMITED EDITION ROLLING STOCK

1989 Giant LGB Color Cat. Eng. Edit.....5.95

3007-CC LGB Collectors Convention Car.....69.99

3007-CC01 B.G.O. Anniv.....109.99

3007S Netherlands Commemorative.....69.99

4028B Prussia Exotic Mural Box Car. SALF 69.99

4028BF Eiffel Tower 100th Anniv. Paris.....89.99

3081E2 Pennsy Green Combine Closetout 69.99

4065-G01 Cab. Col. South Yel. Very Rare 125.00

4065-L01 Lake George & Boulder Cab.....49.95

4065-W03 White Pass & BI Cab. (2055).....49.95

4067-A01 Union Pacific Box Car.....175.00

4067-D01 Rio Grande Yel Box Car.....49.99

4067-D03 Sante Fe Box Car, Br/Sil Closetout 89.99

4067F01 NYC Box Car.....49.99

4067K01 State of Maine Red/Wh/Blu

Box Car.....49.95

4068N01 Great North. Red/BI Stock Car.....49.95

4074-202 Schlitz Yel/BI Reeler.....65.99

4076-D02 Santa Fe Blue Reeler.....225.00

4076M01 Burl. Hopper Working Hatches 64.95

4076W02 Wh Pass Hopper w/Hatches.....64.95

4080-Y01 Transcon. Oil Tanker, Sil.....SALE 62.95

4080-Y02 Gramps BI Tank Car.....SALE 62.95

4080-Y03 Water Tank

Car.....Closetout 89.95 100.00

4080-Y04 Shell Tank Car, Yel.....175.00

4080Y05 San Diego/Arizona Tanker Gr.....74.95

4080W01 Wh Pass Yukon Tanker Blu.....74.95

4085CC Container Car Lmt'd.....109.99

LGB 1991 - NEW ITEMS

21540 "CHRISTMAS TRAIN SET.....349.95

23301 "PASS. TRAIN SET, W/SMOKE.....229.99

23401 "WORK TRAIN SET, W/SMOKE.....229.99

25301 "LGB & B" PASS. SET, W/SMOKE 239.99

25401 "FRE. START. SET W/SMOKE.....239.99

4072-P01 "C&M REEFER, WH/GR.....81.99

4072-P02 "C&M REEFER, GR/WH.....81.99

0029 "LGB SERVICE GUIDE.....12/22/91

0050 "MY BELOVED LGB" BOOK

22176 MOTORIZED CIRCUS TENDER.....97.95

23176 MOTORIZED BLACK TENDER.....97.95

4021CT CHRISTMAS GONDOLA.....49.95

4140 LGB & TANK CAR.....49.95

2077D GRAY AMER. SADDLE TANK.....89.95

2177D BL. AM SADDLE TANK.....89.95

0192 "LGB WALL CALENDAR.....10/22/91

20154 "SMOKE UPGRADE KIT, COMP.....16.95

2020D "LOCO W/SMOKE, STAINZ.....6/21/91

2056 AM DIESEL LOCO "RIO GR".....449.95

2062 INDUSTRIAL DIESEL LOCO.....219.95

2063 "AMERICAN D&RGW SWITCHER.....229.95

2150 "LOCO STEAM, ELIAS".....149.99

2155S "WHITE PASS DIESEL W/SOUND 699.99

3069 "RHB BAGGAGE CAR.....1/21/92

3084 "D&RGW BAGGAGE CAR.....76.99

3125 "CIRCUS OBSERVATION CAR.....62.95

3171 "PASS COACH, "DR" W/BAGGAGE 7/22/91

3206 "FRENCH PASS CAR.....55.95

3267 "FURKA PASS CAR SERIES III.....210.95

3307 "TAMSWEG" PASS CAR.....58.99

3407 "KRAUTER" PASS CAR.....56.99

4039 "SPREEWALD RAILWAY CAR.....63.95

4058 "8-AXLE HEAVY FREIGHT CAR.....12/22/91

4071 "WHITE PASS & YUKON CAB.....1/21/92

4085 "WP&Y CONTAINER CAR.....76.95

4085CC "1991 LGB Convention Car.....125.00

4086 "WHITE PASS & YUKON ORE CAR.....76.95

4091 "D&RGW BOXCAR.....81.99

4126 "THURN & TAXIS BEER CAR.....63.95

4127 "RHB "CARGO DOMIZIL" CAR.....59.95

4143 "MINING CAR, GRAPHITE.....17.95

4159 "4-AXLE AUTO TRANSPORT CAR.....81.95

4163 "008B BICYCLE CAR.....58.95

4190 "SPRIT BOXCAR.....89.99

4280 "SHILL TANK CAR.....87.95

8213 "LGB 1992 DESK PAD, GER.....10/22/91

8214 "LGB 1992 DESK PAD, ENG.....10/22/91

8215 "LGB 1992 TABLE CALENDAR.....12/22/91

9001S "RIGI-DUO-ELECT. CABLEWAY.....3/24/91

DELTON G-GA TRAINS CLOSETOUT

3 car lited pass. set Den & Rio Gr. brn/sil 225.00

42436 Long Log Car Very Realistic.....49.95

42452-D Delton Lines Hopper Maroon.....39.95

42453-P Pennsy Hopper Car Black.....39.95

42454 Denver Rio Gr. Box Car Brown.....39.95

42454SP Southern Pac. Box Car Black.....39.95

LIONEL • G GAUGE • BACHMANN • POLKS ARISTO

LIONEL G GAUGE BLOWOUT SALE

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| G1001 Thunder Mt. Express Set | Super Sale 19.95 |
| G1004 North Pole Train Set | 179.95 |
| G1006 U.P. Limited set | NEW 204.95 |
| G1007 Disney Magic Express Set | 298.95 |
| G5500 G Gauge Loco w/RailScope | Super Sale 74.95 |
| G3002 TV Set | Super Sale 29.95 |
| G5000 Diesel w/Sound Control | Super Sale 298.95 |
| G5102 NYC 4-4-2 Loco & Tndr. | Super Sale 164.50 |
| G5103 ATSF 4-4-2 Loco/Tndr. | Super Sale 150.00 |
| G5106 Chessie 4-4-2 Loco/Tndr. | Super Sale 150.00 |
| G5109 CP 0-6-0 | Super Sale 74.95 |
| G5110 Pennsy 4-4-2 w/Rail Sounds | New 348.95 |
| G7000 NYC Box Car | Super Sale 29.95 |
| G7003 GN Box Car | Super Sale 29.95 |
| G7004 Southern Box Car | Super Sale 29.95 |
| G7005 Northern Pacific Box Car | Super Sale 29.95 |
| G7009 Western Pacific Box Car | 49.95 |
| G7103 Tropicalia Reefer | 49.95 |
| G7104 Gerber Reefer | 49.95 |
| G7105 Seaboard Reefer | Super Sale 29.95 |
| G7107 A.P. Reefer | 49.95 |
| G7200 Operating Hand Car | Super Sale 39.95 |
| G7201 Milwaukee Road Ore Car | Super Sale 21.95 |
| G7203 Santa Santa Hand Car | Super Sale 15.95 |
| G7204 N. Pacific Ore Car | 34.95 |
| G7207 Mickey & Donald Hand Car | 75.99 |
| G7405 Baltimore & Ohio Gondola | Super Sale 19.95 |
| G7406 Southern Gondola | Super Sale 19.95 |
| G7407 M&T Gondola | Super Sale 21.95 |
| G7503 H.I. Cent. Flat Car w/Stakes | Super Sale 16.95 |
| G7504 U.P. Flat Car w/Stakes | Super Sale 16.95 |
| G7505 Soo Line Flat Car w/Logs | Super Sale 24.95 |
| G7602 Gulf Tank Car | 44.95 |
| G7603 Borden Tank Car | Super Sale 39.95 |
| G7604 Shell Tanker | NEW 49.95 |
| G7700 Pennsy Lighted Caboose | Super Sale 29.95 |
| G7703 New York Central Caboose | Super Sale 34.95 |
| G7707 B&O Bobber Caboose | Super Sale 19.95 |
| G7713 Pennsy Sp. Window Caboose | Super Sale 39.95 |
| G7800 NYC Exc. Searchlight Car | Super Sale 34.95 |
| G7802 Conrail Box Car w/EDT | Super Sale 34.95 |
| G7803 Seaboard Box Car w/EDT | Super Sale 34.95 |
| G Gauge Lionel Straight or Curved Track ea. | 2.50 |
| G Gauge Lionel Wide Radius Curved Track ea. | 4.25 |

POLKS ARISTO "G" GAUGE BUILDINGS

| | |
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| 1964 LL Operating Dual Crossing Gates w/Bell | 39.99 |
| 7100 Operating Bridge | 62.50 |
| 7101 Covered Bridge, 20' long & 11" high | 69.95 |
| 7102 40 Long Wooden Truss Bridge | 61.95 |
| 7103 Operating Water Tower | 16.50 |
| 7104 Over & Under Graduated (24) Trestle Set | 34.95 |
| 7105 Covered Waiting Train Station Platform | 17.95 |
| 7106 All High (12) trestle set | NEW 89.95 |
| 7107 Victorian Large Barn | NEW 41.95 |
| 7109 Watch Tower w/Smoke & Light | NEW 81.95 |
| 7110 Signal Bridge for Double Track | NEW 18.95 |
| 7111 Large Victorian House | 93.75 |

POLKS ARISTO G GAUGE

| | |
|---|----------------------|
| 21201 Steam Loco 0-4-0 WP | 58.99 |
| 21400 Pacific 4-6-2 PRR B&O, C.N.J., S.O. CR. | 294.00 |
| 22000 ALCO FA-1 - NYC, SP, B&O, SP, PRR, LV, SF, RI, RHO, Penn. Gm. | Sale 119.95 |
| 22050 ALCO FB-1 - NYC, C.P., B&O, SP, PRR, LV, SF, RI, RHO | Sale 119.95 |
| 22100 ALCO U25B - Southern, B&O, Chesapeake, New Haven, Santa Fe | 164.00 |
| 31400 H.W. Obs. DMJ, So. Cies. B&O P.A. Milw. | 118.95 |
| 31300 H.W. Coach or Dining Room cars above 1095 | |
| 41100 Cvd Gm. BN, NYC, PLE, SP, C&O, R&E | 33.95 |
| 41200 Bay Covered Hopper - Nickel Plate Lack, Napier Vt., CR-NJ | 33.95 |
| 41300 Chemical Tanker Car-Dow Hopper, Mobil, Union, Sinclair SF-PA, U.P. | 29.95 |
| 42200 Bobber Caboose - PRR WY, NYNH & H. 18.95 | |
| 42300 Bay Window Caboose - Erie, NYC, Chessie, U.P. REA | 81.95 |
| 46009 Box Car - MP, UP B&O, REA Lack | 38.95 |
| 46150 Milk Car - Paudler, Horden, Hoods, Reir/Bklyn | 44.95 |
| 46200 Reefer - Heinz 57, Heineken, Blatz, Pluto Water, Miller, Borden's Chessie | 41.95 |
| 46220 REA Refrigerator Car Limited | 49.95 |
| 46350 Flat Car with Christmas Tree | 38.95 |
| 46380 Searchlight Car | 43.95 |
| 46500 Piggyback Car w/Trailers | 38.95 |
| 46601 REA Truss Reefer | 29.95 |
| 9999 REA Catalog | 3.00 |
| 2903 Passenger Set B&O Complete | 249.95 |
| REA-29001 Freight Set Great Northern Complete | 214.95 |
| REA-29002 Pennsy RR Passenger Set Complete | 249.95 |
| REA-21001 Rogers 2-4-2 Steam Pass. Penn Loco | 89.95 |
| REA-21002 Rogers 2-4-2 Steam Pass. Rio G Loco | 89.95 |
| REA-21101 Rogers 2-4-2 Steam Fright G.N. Loco | 89.95 |
| 21900 Tender only w/sound - all roads | 49.95 |
| Coach or Combine, Rio Grande, V&T SF, CN&W Monon SP | Super Sale 71.95 |
| Prr or B&O only | Super Sale 49.99 |
| 31201 Sierra Obs. PAB&W Rio Grande V&T | 89.95 |
| SF, CN&W Monon SP | NEW 109.95 |
| REA-31700 Heavyweight Combine | 109.95 |
| REA-31500 Heavyweight Diner | 69.99 |
| Sierra Pass. Cars w/Interiors & Smoke | Closetout Sale 39.95 |
| REA Passenger Car Pennsy, B&O, Virginia & Truckee, Denver & Rio Grande Santa Fe | 39.99 |

BOX CARS SUPER SALE 34.95

| | |
|--|--|
| *46001 Rutland-46002 Rio Grande-46003 Santa Fe | |
| 46004 Pennsy-46005 Central of GA-46007 Timkin | |
| *46008 Balt. & Ohio | |

GONDOLAS EACH 25.00

| | |
|--|------------|
| *41001 Soo & 41002 Can. Pacific-41003 Maine Cent | |
| *41004 Cent. Vermont-41005 Gulf Mobile & Ohio | |
| *41106 Boston & Maine-Burt No. covered Gm-46301 West Mid Flat-46302 Great N. | EACH 25.00 |
| 46401 Stake/Bulkhead NP CP KCS SP | 31.95ea |
| 46402 Stake or Gondola | 31.95ea |
| 46100 Drop End Gm CP MC CV GM&O B&M PA | 25.00 |

REA SMOKEING CARBOUSE w/DETAILED INT.

| | |
|--|--------|
| REA CARBOUSE NO SMOKE NO INTERIOR | 59.95 |
| REA-42101 Great Northern Smoking Caboose | 74.95 |
| REA-42102 Burlington Smoking Caboose | 74.95 |
| REA-42103 Rio Grande Smoking Caboose | 74.95 |
| REA-42104 Pennsylvania Smoking Caboose | 74.95 |
| REA-42105 REA Green Smoking Caboose Rare | 150.00 |

REA SUPER CONDUCTIVE BRASS TRACK

| | |
|--|-----------------|
| REA#1000 12 Straight Track 3 00ea | Sale case 29.99 |
| REA #1000 12 Brass Rail Joiners (12 pcs) | pkg 3.75 |
| REA #1060 24 Straight 5 00 ea | (12) 58.99 |
| REA #1070 36 Straight Track 9 00 ea | (12) 100.00 |
| REA #1100 Curved Track 3 00 ea | Sale case 29.99 |
| REA #5400 Operating Pack 8 Amps | 39.95 |

BACHMANN G GAUGE SETS

Limited Lifetime Factory Warranty

| | |
|---------------------------------------|--------|
| 90011 Thunderbolt Express Freight Set | 127.95 |
| 90014 Prairie Flyer Freight Set | 144.95 |
| 90015 Rocky Mountain Express Fl. Set | 164.95 |
| 90016 Royal Blue Passenger Set | 179.95 |
| 90017 Lumber Jack Freight Set | 109.95 |

BACHMANN G ENGINES

| | |
|--|------------|
| 91041 0-4-0 Tank Loco w/Light | 59.95 |
| 91101 Old Time Baldwin 2-4-2 w/Tender, Smoke Light & Sound, U.P. | 79.95 |
| 91114 Modern Baldwin 2-4-2 w/Tender, Smoke, Light & Sound, PA | 79.95 |
| 91202 4-6-0 Baldwin w/Tender, Smoke, Light & Sound, S. Fe. B&O, Rio Grande | 99.95 |
| 93938 Open Air Trolley Car U.T. | Sale 69.95 |
| 93939 Covered Trolley Car U.T. | Sale 69.95 |
| 96201 Motorized Gandy Dancer w/Trailer | Sale 39.95 |

BACHMANN G ROLLING STOCK

| | |
|--|------------|
| 92641 Flat Car - Coal Creek | 19.95 |
| 92602 Flat Car - Santa Fe | 19.95 |
| 92612 Flat Car - Baltimore & Ohio | 19.95 |
| 92748 High Side Gondola - Rio Grande | 19.95 |
| 92747 High Side Gondola - Victor Gold Mining | 19.95 |
| 92732 High Side Gondola - Baltimore & Ohio | 19.95 |
| 93102 Bobber Caboose - Santa Fe | 19.95 |
| 93143 Bobber Caboose - Rio Grande So. | 19.95 |
| 93141 Logging Caboose - Coal Creek Lumber | 19.95 |
| 93344 Wood Box Car - Fl. & Cripple Creek | 19.95 |
| 93314 Wood Box Car - Pennsylvania | 19.95 |
| 93512 Flat Car w/Logs - Baltimore & Ohio | 23.95 |
| 93502 Flat Car w/Logs - Santa Fe | 23.95 |
| 93541 Flat Car w/Logs - Coal Creek | 23.95 |
| 93252 Hershey Knead - Rea | Sale 19.95 |
| 93253 Doublemint Gum Reefer | Sale 19.95 |
| 93254 Arm & Hammer Reefer | Sale 19.95 |
| 93431 Phillips 66 Tank Car | Sale 19.95 |
| 93432 Texaco Tank Car | Sale 19.95 |
| 93433 Dad's Rootbeer Tank Car | Sale 19.95 |
| 93434 Life Savers Tank Car | Sale 19.95 |
| 93435 Mobilgas Tank Car | Sale 19.95 |
| 93436 Quaker State Tank Car Ltd. Ed | Sale 25.95 |
| 93445 Grams Tank Car | 19.95 |
| 93446 Conoco Tank Car | 19.95 |
| 98101 Union Pacific Stock Car | 19.95 |
| 98114 Pennsylvania RR Stock Car | 19.95 |
| 98117 Missouri Kansas Texas Stock Car | 19.95 |
| 98118 Denver Rio Grande Western Stock Car | 19.95 |
| 98201 Union Pacific Hopper w/Coal Load | 24.95 |
| 98214 Pennsylvania Hopper w/Coal Load | 24.95 |
| 98229 Peabody Hopper w/Coal Load | 24.95 |
| 98230 East Broad Top Hopper w/Coal Load | 24.95 |
| Bachmann G Gauge Straight or Crvd Track | ea 1.75 |

BACHMANN G LIGHTED PASSENGER CARS

| | |
|---|-------|
| 97143 Combine w/Sliding Doors - B&O, UP, SF | 29.95 |
| 97243 Coach - B&O, UP, Santa Fe | 29.95 |
| 97343 Observation - B&O, UP, Santa Fe | 26.95 |

SUPER G SCALE SKANIT CLOSEOUT SALE

| | |
|--------------------------------|------------------|
| 2570 Locomotive Shed | Super Sale 39.95 |
| 2800 Town Church | Super Sale 39.95 |
| 2820 Town House | Super Sale 29.95 |
| 2520 Double Passenger Platform | Super Sale 29.95 |
| 2530 Freight Terminal | Super Sale 39.95 |
| 2560 Storage Tower | Super Sale 29.95 |
| 2860 Retail Store | Super Sale 29.95 |
| 262 Fence Assortment | Super Sale 4.95 |
| 267 Garden Furniture Set | Super Sale 4.95 |
| 270 Water Spout | Super Sale 4.95 |
| 274 Station Phone Booth | Super Sale 5.95 |
| 279 Coal Bunker w/Coal | Super Sale 5.95 |
| 300 2 Light Target Signal | Sale 6.95 |
| 301 3 Light Target Signal | Sale 6.95 |

FAMOUS QUALITY LGB-POLA BUILDINGS

| | |
|---|---------------|
| POLA LGB Buildings Color Catalog 1990-91 | 3.00 |
| 1923P US Water Tower, SUPER BU No Certif. | 89.95 |
| 1933P Smoking Booth, Garage Ltd BU Ltd Ed | 179.95 |
| 1936P Operating Elect Saw Mill BU | Ltd Ed 349.95 |
| 1937P Cr. Crossing w/Guard/Hut BU | Ltd Ed 189.95 |
| 1938P Operating Coal Station BU | Ltd Ed 289.95 |
| 1939P Operating Loading Crane | Ltd Ed 179.95 |
| #84 Pola Smoke Unit w/Smoke Oil | 12.95 |
| 100P Sue-the SUPER Smoke Oil w/Applicator | 94.95 |
| 100P Long Rural Railway Station w/Kleinbach | 138.95 |
| 9012 P. Vory Train St. w/Side Platform | 55.95 |
| 902P Waiting Room w/Ladies Room | 55.95 |
| 903P Toilet Block w/Tiled Roof | 55.95 |
| 9042 P Base Plates Make Ext. Buildings | 27.95 |
| 905P Freight Shed Depot w/Barrels, Freight | 84.95 |
| 906P Railway Station w/Smoke Waldau | 108.95 |
| 907P Silverton Western Railroad Station | NEW 104.95 |
| 908P Covered Platform Station w/Peaked Roof | 34.95 |
| 909P Long Low Platform w/Ramp | 79.95 |
| 910P Eng. Shed for Single Tr. Pitched Roof | 109.95 |
| 911P Double Engine Shed | 16.95 |
| 912P Dark Moor Shanty | 39.95 |
| 913P Western Style Silverton Outhouse | 78.95 |
| 914P Switch Tower w/Outdoor Staircase | 78.95 |
| 915P Crossing Keeper House w/Scale | 78.95 |

GENUINE LGB REPLACEMENT PARTS

| | |
|--|----------|
| 2110-2 Coupler 2010 2020 w/Spigot & Bracket | 15.95 |
| 2010/3 Smoke Generator For Starter Sets | 6.25 |
| 2010/4 Tractor Sets | 4.50 |
| 2010/7 Coupling Set | 19.95 |
| 2015/1 Loco Wheels 2015D (4) | 15.95 |
| 2015/3 Smoke Stack 2015D | 11.95 |
| 2018/4 Tractor Tires (1 Oper Pack) | NEW 3.50 |
| 2019/2 U.S. Knuckle Coupler | 1.95 |
| 2040/2 Coupling Set, Standard All Cars | 15.95 |
| 2040/3 Pantograph/2040 | 9.95 |
| 2046/2 8 Spring Couplers for Rack Loco & Cars | 2.95 |
| 2050/2 Signal Horn Contact Rail | 14.95 |
| 2070/3 Smoke Generating Unit 2070/71 | 14.95 |
| 2072/3 Smoke Generating Unit for 2072/2074 | 14.95 |
| 2080/2 Coupling Set | 4.95 |
| 2080/3 Smoke Unit 2080D/S | 14.95 |
| 2085/3 Smoke Unit for 2085D | 14.95 |
| 2110 Carbon Brushes for Wheels (4) | 3.95 |
| 2120 Carbon Brushes with Springs | 19.95 |
| 2204 Motor for 201 SD-2019S-2045 | 24.95 |
| 2205 Motor w/Gear for 2046 Loco | 34.95 |
| 2206 Ball Bearing Motor w/Universal Joint for 2064 & 2066 Loco | 29.95 |
| 2210 Spring & Contact Shoe (2) | 4.95 |
| 2214 Current Pickup shoes for #2040 | 4.95 |
| 2215 Contacts for 2018D | 19.95 |
| 2300 Motor for #2001 Hand Car | 9.95 |
| 3019/1 Metal Solid Wheels | 9.95 |
| 3019/2 Metal Spoked Wheels | 9.95 |
| 3019/3 Electrical Contacts | 4.75 |

LGB ELECTRICAL PARTS

| | |
|---|-----------|
| 5013 1/2 Twin Core Wire, orange & white | 9.99 |
| 5013/1 Wiring Socket | 4.95 |
| 5014 Twin Core Wire, black & white | 6.95 |
| 5016 Terminal Clips w/White | 4.95 |
| 5016/1 2 Tr. Plug Terminal Clips Only | 7.95 |
| 5022 20mm Roll of Wire | 10.99 |
| 5023 Twin Cable 20mm, blue/red | 14.95 |
| 5024 Label Set For U.S. Car | 2.95 |
| 5025 8 Stop Blocks | each 1.00 |
| 5050/1 Screw Bulbs (1) | 2.95 |
| 5050/2 Bulb Socket with Bulb | 2.95 |
| 5051/1 Plug Bulbs w/White (10-pack 8.95) each | 1.00 |
| 5051/2 Plug Bulbs Red (10-pack) each | 1.00 |
| 5052 Tail Overhead Street Lamp | 13.95 |
| 5051 Cable Holder | 7.95 |
| 5072 Terminal Block | 12.95 |
| 5073 Wiring Terminal | 12.95 |
| 5080/1 Control Panel Symbols | 12.95 |
| 6060 600' Catenary Rods 600mm (12) | 19.95 |
| 6201 Overhead Wires 680mm (12) | 19.95 |

951P Working Water Well w/Hand Pump

| | |
|---|----------|
| 951P 4 Trough | 6.95 |
| 952P Illuminated Modern Telephone Booth | 9.50 |
| 953P Fence - Iron Railings 8 Sections | 7.95 |
| 954P Garden Fence w/Opening Gate | 7.95 |
| 955P 6 (2 Low 2 Med 2 High) Trestle Bridge | 29.95 |
| Pier | 40.95 |
| 956P Sam's Filling Station | 13.95 |
| 957P 2 Ladder | 6.95 |
| 958P Gas Bottle/Barrels (for 931 P) Welding Set | 6.95 |
| 961P 2 Work Benches w/Tools, Phone Desk, etc. | 9.95 |
| 962P Four Gas Pumps w/8 Oil Barrels | 7.95 |
| 963P Baggage Car w/Moving Wheels & Front Axle | 15.95 |
| 964P Station Carts & Luggage | NEW 9.95 |
| 965P Coal Ashes Removal Tool Stand | NEW 9.95 |
| 966P Car Ramp for Freight or Cattle | NEW 9.95 |
| 967P Pedestrian Wooden Style Footbridge | 11.95 |
| Crossing | 12.95 |
| 968P Tool Set w/Wheel Barrow Shovels, Rakes, Saws | 12.95 |
| 969P Garden Furniture Set, Illuminated | 14.95 |
| 970P Wooden Lamp Post, Illuminated | 13.95 |
| 971P Double Lamp Post, Illuminated | ea 3.95 |
| 972P Farm Stand (Set of 3 Pieces) Illum | ea 3.95 |
| 973P Rural Station Clock (For #901P, 900P & 914P) | 5.50 |

974P Running Lites For Fairs

| | |
|--|-----------|
| 960P Gas Bottle/Barrels (for 931 P) Welding Set | NEW 11.95 |
| 961P 2 Work Benches w/Tools, Phone Desk, etc. | NEW 11.95 |
| 962P Four Gas Pumps w/8 Oil Barrels | NEW 11.95 |
| 963P Baggage Car w/Moving Wheels & Front Axle | NEW 11.95 |
| 964P Station Carts & Luggage | NEW 11.95 |

MANTUA LOCOMOTIVES

LIONEL NEW RELEASES

PA, RI,
BN, WM
312 Mikado 2-8-2
Undec. Kit 44.95
RTR 74.95

NYC
316
Hudson 4-6-4
RTR 69.95
Kit 49.95

322 Camel
2-8-2 Reading
PA, CNJ,
Undec.
NYC, UP, ACL
GN, SP, SR,
Kit 44.95
RTR 64.95

UP
Chessie B&O, CP
311 Pacific 4-6-2
Undec. Kit 49.95
RTR 64.95

PA,
W&A, B&O
307 General 4-4-0
RTR 59.95
Kit 44.95

351 Articulated
Logger 2-6-6-2
Undec. RTR 94.95

352 Art. RTR 2-6-6-2 w/Tender,
RTR97.95 Kit 74.95

326 Booth Kelly Logger 2-6-6-2 Undec. Kit 69.95
RTR 94.95

353 Tank Mallet Logger
RTR 94.95

323 Pacific
Camelback
RTR 64.95

355 Mikado w/Power Drive, SF, PRR, RTR 74.95

335 Goat 0-4-0 Switcher Phila. & Read., Reading,
CNJ, L&H, SP, B&O, New England RTR 54.95
Undec. Kit 39.95

338 B&A
Switcher
NYC, B.O, SP
RTR 59.95
Undec. Kit 44.95

357 Atlantic 4-4-2 PRR, ATSF, SP,
NYC, B&O, So. CP, RTR 84.95

336 Atlantic Special Sale 79.99

SUPER BOWL FREIGHT TRAIN

GP20 Diesel Loco Dual Drive w/12 cars
plus caboose. Super Sale 124.95
Extra Car of Your Favorite Team SALE 12.95 Each

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302 Little Six 0-6-0 SF, PA, Reading, 29.95 44.95

303 Shifter 0-4-0 49.95

304 Big Six 0-6-0 D&RG, NYC, CN, 39.95 49.95

305 Pony 0-4-0 29.95 49.95

306 Prairie 2-6-2 SF, PA, BN, 49.95

308 Dixie Belle 4-6-0 NYC,
B&O, D&RG 39.95 54.95

309 Rogers 4-6-0 54.95

313 Mogul 2-6-0 (SF, CV, PA) 54.95

317 Berkshire, NP, SP, B&O 69.95

328 Pacific Kit w/Synchro Snd Tend 64.95

329 Mikado Kit w/Synchro Snd Tend 64.95

330 Hudson Kit w/Synchro Snd Tend 64.95

340 Pacific w/Vandy Tender 69.95

341 Mikado w/Vandy Tender 74.95

F-7 Diesel w/Single Motor NYC, Amtrak,
Conrail 22.95

F-7 Diesel Dummy 8-Unit NYC, Amtrak,
Conrail 12.95

406 GP-20, UP, RDG, Conrail 29.99

ENGINES WITH POWER DRIVE

354 Pacific, Erie, B&O 74.95

356 Hudson, ATSF, NYC 74.95

358 Lindberg Atlantic RTR 84.95

Mantua Full Color Catalog 3.00

323 Pacific Camelback 4-6-2 64.95

401 Plymouth UP, Bell, Westinghouse,
Hooker 24.95

407 Davenport SP, NYC, Conrail, RGW 24.95

712 Vandy Tender Undec 19.99

713 Long Haul Tender Undec 19.99

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221 Baggage, 222 Combine, 223 Coach, 224
Diner, 225 Room Car 21.95

226 Obs., 227 Dome, 228 Dome Obs. 25.95

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718 1860 Combine 4.99 722 1860 Horse Car 4.99

719 1890 Pass. 4.99 723 1860 Water Car 4.99

720 1890 Combine 4.99 724 Log Car 4.99

721 1860 Box Car 4.99

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AHM Gondola Sound Car with Crates 9.99

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SD40-2 23.99 12.99

SD 40T-2 25.99 13.99

GP-38 or GP-50 21.99 11.99

GP-40-2 or FM 21.99 11.99

PA1, PB1 25.99 13.99

SW 1500, SW 1000 24.99 12.99

RDC1 RDC3 15.99 9.99

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Tech II Model 2400 29.99

Tech II Model 2500 35.99

Tech II Model 2800 Sale 36.99

Tech III Model 9000 45.99

Tech III Model 9500 56.99

7000 Sound & Power NEW 99.95

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Dual Loco Pack #5 59.99

Throttle Pack 501 37.99

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Tech II Train Power 027 Lionel Sale 39.99

Train Power 6000 LGB or 6200 LGB 42.99

Tri-Tec Hogger 100MW, 100VA Walkaround
Control 134.95

Tri-Tec 40s Super Power 40VA Sale 49.99

Magnum #46681 28.95

Magnum Plus #46682 34.95

Magnum Premier #46683 44.95

Magnum #46684 49.95

Magnum Ultra #44285 w/2 Meters 59.95

KADEE HO COUPLERS

No. 5 Couplers Pack 2.19, 10 Pack 19.99

No. 4, 6, 8, 9, 11 or 16 Pack 2.19, 10 Pack 19.99

505, 6, 7, 8 Bolsters Each 2.19

307 Magne-Electric Uncouplers Each 5.65

308 Uncouplers, 270/321 Uncouplers 2.89

205 Coupler Height Gauge 2.85

208 or 209 Washers Pack 1.85

231 Greasem Lube, 235 Spring Pick 1.50

236 Speedie Driver Cleaner 6.25

312 Uncoupler 3.45

334 Uncoupler Giling Jig 1.85

IHC #5000 HO Coal Bunker 5.99

5110 Ferris Wheel NEW 7.99

5111 Carousel (Merry-go-round) 12.99

5112 Sky Wheel NEW 12.99

5115 Motorizing Unit for above NEW 4.99

5124 Octapuss Ride 14.99

5213 Swinger w/Swings 12.99

Building on Fire w/Smoke 15.95

IHC Gingerbread Houses 5 Dif. Bldgs

IHC Brick Colonial Houses 5 Dif. Bldgs Each 8.99

COLLECTORS SETS

#1 South. Ser. Stat. Freight Set 395.00

#2 Fallen Flags Mil. Ltd. Set 695.00

#3 Fallen Flags Grt North. Elec. Ltd. Set 495.00

Series #4 Fallen Flags W. MD. Set 454.95

1700 Conrail Limited Set 795.00

1705 Chessie System Set 695.00

1710 CP Rail Fght Set w/Smoke Cab Ltd
Ed. 495.00

1491 Erie Lackawanna Freight Set 995.00

Classic Hiawatha Pass Set Super Sale 695.00

ENGINES & CABOOSSES

6506 Santa Fe Bay Window 49.95

8607 U.P. 2-6-4 Eng & Tender 149.95 144.95

BLOWOUT 104.95

8805 U.P. RS-3 104.95

8806 New Haven SD-18 119.95

8001 Rock Island Loco & Tender 595.00

7603 Rock Island Hi Cupola Caboose 89.95

8300 Gold GG-1 Mini Series 495.00

9702 Gold Caboose Pennsy Mini Series
only 99.00

8401 Lionel Hand Car 1986 1987 Collector
Item 49.95

8402 Burro Crane Motorized 125.00

8403 Santa Claus '88 Hand Car 39.95 44.95

BLOWOUT 495.00

8301 Southern FM Trainmaster 495.00

7601 Southern Hi Cupola Caboose 89.95

8003 D&LW Northern Engine & Tender 695.00

7604 D&LW Hi Cupola Caboose 89.95

8405 Santa Fe Burro Crane 96.95

8406 Track Maintenance Car 84.95

8205 GE-8 40C Loc. w/Dual motor, Horn 395.00

9706 UP Extended Vis. Caboose w/Smoke 89.95

9709 Pa. Cab. 78.95

8000 Pennsy 0-600 Switcher B6 575.00

ROLLING STOCK

6510 New Haven Bay Win Cab 19.95 36.00

6617 CS&NW Box Car w/EDT 23.95

6301 Lionel Barrel Ramp Car 16.95 30.00

6307 NKP Flat Car w/Vans 39.95

9002 Pennsy Diner 39.95

9003 Milwaukee Road Diner 49.95

9651 Santa Fe Tool Car 24.95

9207 CP Rail Double Door Box Car 39.95

9209 FEC Box Car 16.95

OPERATING CARS

9806 Pennsy Operating Hopper 29.95

9809 Erie Operating Box Car 34.95

9800 Operating Cattle Car 125.00

6613 The Katy Coal Dumper 19.50

6614 Reading Cop & Hobo Car 34.95 30.95

6618 Santa Fe Track Maint. Car 15.95 10.50

9807 Smoking Caboose Pennsy 59.95

9810 Operating Bosco Milk Car 125.00

9852 Jersey Central Bunk Car 29.95

9853 Jersey Central Tool Car 25.95

6619 Washash Coal Dump Car. BLOWOUT 18.95

6620 C&O Track Maintenance. BLOWOUT 18.95

6221 Alaska Rail Log Dump Car BLOWOUT 18.95

RAIL SCOPE CAMERA IN LOCOS

33001 HO Rail Scope PWD & Dummy 149.95

55000 G Scale Rail Scope BLOWOUT 149.95

3002 Rail Scope TV Set BLOWOUT 74.95

1989 COLLECTOR RELEASES

Amtrak GG-1 Passenger Set Complete 995.00

8303 Amtrak GG-1 w/Dual Motors &
Magnatraction 495.00

9100 Baggage Car 125.00

9101 Combine Passenger Car 125.00

9102 Passenger Car 125.00

9103 Vista Dome Car 125.00

9104 Dining Car SET ONLY

9105 Vista Full Dome Ltd. Ed. SET ONLY

9106 Observation (All Cars, 795.00) 125.00

NEW 1989 ROLLING STOCK

6208 Pennsy Auto Carrier w/Cars 59.95

6308 Burlington Flat w/Trailer 69.95

6314 Washash Flat Car w/Trailers 39.95

6318 Lionel Depressed Center Flat/Cabel
Reels 20.50

9654 Amtrak Bunk Car 26.95

9210 Soo Line Box Car 39.95

9211 Vt. Railway Box Car 39.95

9212 PRR Box Car 39.95

9213 SP&S Box Car 39.95

STANDARD GAUGE CLASSICS

13001 #1 318 Std. Gauge (Freight Set) 690.00

13103 Blue Comet Std. Gauge Set CALL

13412 Old #7 Std. Gauge Set 154.95

13802 Lionel Runabout Boat 448.95

13002 Fire Ball Express Std. 1095.00

13407 Illinois State Car Std. 562.95

13602 Season's Greetings Car Std. 169.95

51001 #44 Electric Freight Set 725.00

3101 #384 E Steam Loco & Tender 575.00

3300 Gondola 99.95

3600 Cattle Car 115.95

3700 Caboose 134.95

(The Above Complete Set 1025.00)

3900 #200 Trolley Powered, BLOWOUT 225.95

3901 #201 Trolley Drum Trailer BLOWOUT 150.00

Both Trolley & Dummy BLOWOUT 350.00

1900 #4-40 N Signal Bridge &
Control Panel 279.95

3400 Baggage, 3401 Pullman, 3402 Obs.
plus Eng & Tndr Complete Set 975.00

3880 #1115 Mallet Passenger Station 225.00

Green Standard Gauge State Set 2495.00

1991 CHRISTMAS COLLECTION

11726 Erie Lackawanna Frt Set 298.95

18208 B.N. SD40 Dummy 189.95

19108 N&W Full Dome Vista CALL

19406 West Point Mint Car CALL

19241 Mickey Mouse Hi Cube CALL

19242 Donald Duck Hi Cube CALL

19525 Speedy Alka Seltzer Reefer 34.95

19526 Jolly Green Giant Reefer 34.95

13604 Std Gauge Christmas Box Car CALL

19913 OGA Christmas Box Car 26.95

48311 A.F. Christmas Box Car CALL

13425 Std Ga. Barnard Pass Car CALL

85003 Large Scale B.N. GP20 CALL

COLLECTOR SERIES

11711 Santa Fe Passenger Set 1195.00

11719 Coastal Freight S.S. Special CALL

18007 So. Pacific GS2 w/Rail Sounds 585.00

18011 Chessie T 1 w/ Rail Sounds 795.00

17608 Chessie Std. O Cab. w/Smoke 69.95

Engine & Tender & Caboose 850.00

18010 PA 2 Turbine w/Rail Sounds 1450.00

51702 PA N8 Cab. w/Smoke 259.95

Both Engine & Caboose 1675.00

18304 Lackawanna M.U. Commuter Cars 475.00

11722 Girls Train 475.00

18504 Frisco Fallen Flags #5 525.00

Madison Cars 19015-16-17-18 499.95

Semi Scale Freight Cars (4) 469.95

17004 MKT Center Flow Hopper 33.50

17109 N&W Center Flow Hopper 34.50

17110 U.P. Three-Bay Hopper w/Coal 36.50

17111 Reading Three-Bay Hopper w/Coal 36.50

17203 Cotton Belt D.D. Box Car 39.95

17204 Missouri Pac. D.D. Box Car 39.95

17902 New Jersey Zinc Tank Car 49.95

17903 Conoco Tank Car 49.95

19405 Southern Six Wheel Crane Car 75.00

19409 S. Flat w/Stakes D.C. Trucks 23.50

OPERATING ACCESSORIES

12782 Lift Bridge 369.95

12791 Animated Pass. Station 79.95

TRADITIONAL SERIES

11720 Santa Fe Special Set 72.50

11721 Mickey's World Tour Train Set 104.00

ENGINES & MATCHING CABOOSE

18811 Alaska SD 9 w/Horn 139.00

16523 Alaska Sq. Window Caboose Illum. 23.95

18812 KCS GP38 w/Horn 129.00

16526 KCS Square Window Cab. Illum. 26.25

18413 Charlie Brown & Lucy Hand Car 50.95

18620 Ill. Central Eng & Tend w/Smoke 189.00

16042-47 Ill. Central 6 Car Pass. Set 155.00

ROLLING STOCK

16041 New York Central Dining Car 39.95

16113 Diamond Shamrock Tank Car 18.50

16326 S.F. Depressed Flat w/Cable 21.25

16330 MKT Flat w/Trailers 21.50

16332 L.L. Depressed Flat w/Transformer 21.95

16633 Frisco Bulk Head Flat w/Load 23.00

16634 CN&W TTUX Flat Car 75.00

16315 Amtrak Ore Car w/Load 17.95

19316 Washash Hopper 20.25

19520 CSX Reefer 20.75

19658 Norfolk & Western Tool Car 27.75

19912 I Love Ohio Boxcar 21.95

FAMOUS NAME BOX CARS

19228 Cotton Belt Box Car 18.95

19231 T.A.G. Double Door Box Car 18.95

19232 Rock Island Double Door Box Car 18.95

19233 Southern Pacific Box Car 18.95

FAMOUS INVENTOR SERIES

19522 Guglielmo Marconi 20.75

19523 Dr. Robert Goddard 20.75

OPERATING CARS

16623 Katy D.D. Box Car w/E.T.D. 26.00

16634 Western Md Coal Dump Car 20.50

16636 Denver & Rio Grande Log Dump Car 20.50

16637 Western Pacific Ext. Searchlight Car 29.50

16638 Lionville Circus Animal Car 25.00

16639 B&O Box Car w/Steam Rail Sounds 142.00

16640 Rutland Box Car w/Diesel
Rail sounds 142.00

DIE-CAST VEHICLES

12785 Lionel Tractor & Gravel Truck 12.95

12786 Lionville Steel Tractor & Trailer 12.95

12794 Lionel Tractor Die Cast 6.95

TRACKSIDE ACCESSORIES

12795 Cable Reels (2) 3.50

12756 The Scale Hudson Video 23.95

12780 RS1 2 Control Transformer 144.95

1991 Lionel Video Catalog 19.95

AMERICAN FLYER

48008 New Haven EP5 239.95

48009 G.M. GP7 225.00

48310 M.K.T. Box Car 29.95

49002 U.P. Searchlight Car 54.95

49607 N.H. Square Window Caboose III 34.95

49814 MO. Pacific Pat. Pass. Set 509.95

49914 MO. Pacific Pass. Car SET ONLY

49915 MO. Pacific Vista Dome SET ONLY

MO. Pacific A-A w/6 Cars 619.95

13107 1-408 E Locomotive w/State Cars
Sets Only 2675.00

13108 Lionel Lines 2-400 E Eng. & Tend 995.00

13702 200 Series Caboose 185.00

13804 Lionel Auto Racer Set 675.00

13804 437 Classic Tower 239.95

13805 #1-44 Speed Boat 489.99

51004 "O" Gauge Blue Comet Set 995.00

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NEW LIONEL 1990-1991 TRADITIONAL SETS

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| 1463 Famous Coca-Cola Set RARE | 475.00 |
| 1602 Nickel Plate Special Set | 185.95 |
| 1615 Cannonball Express Set SUPER SALE 94.95 | |
| 1632 Santa Fe Freight Set Less T&T SALE 250.00 | |
| 1687 Freight Flyer Set SUPER SALE 69.95 | |
| 1703 Iron Horse Freight Set | 154.95 |
| 1706 Old Time Dry Gulch Set | 250.00 |
| 1707 Amtrak Silver Spike Passenger Set | 375.00 |
| 1714 Badlands Express Set | 83.95 |
| 1716 Lionelville Circus Special Set | 195.95 |
| 1717 CSX Freight Set | 269.95 |
| 6034-6039 Northern Pacific Pass Car Set | 189.95 |

NEW ENGINES

| | |
|---|--------|
| 8407 Snoopy & Woodstock Hand Car | 49.95 |
| 8609 Northern Pacific Steam | 189.95 |
| 8610 Rock Island 0-4-0 Steam BLOWOUT 169.95 | |
| 8615 Grand Trunk Western Steam | 98.95 |
| 8807 Lehigh Valley RS3 Diesel | 103.95 |

NEW CABOOS AND NEW ROLLING STOCK

| | |
|-----------------------------------|-------------|
| 6516 Lehigh Valley | 23.95 |
| 6517 Atlantic Coast Line B.W. | 24.95 |
| 6519 Rock Island Transfer | 21.00 |
| 6031 PA Diner Car | 49.95 |
| 6214 D&RG Auto Car | SALE 29.95 |
| 6215 Conrail Auto Car | SALE 29.95 |
| 6320 Great Northern Barrel | 15.50 |
| 6322 Sealant T.T.U.X. Flat w/Vans | RARE 125.00 |
| 6323 Lionel Lines Flat w/Vans | 19.95 |
| 6324 PA Depressed Flat w/Cables | 19.95 |
| 6441 Alaska Bay Window | 39.95 |
| 9933 Lancaster Bay Window Caboose | 39.95 |
| 6620 C&O Tank Maintenance Car | 18.50 |
| 1915 Union Pacific DD Box Car | 24.95 |
| 9217 Burlington Box Car | 24.95 |
| 9218 New Haven Box Car | 29.95 |
| 9311 So. Pacific Covered Hopper | 19.95 |
| 6622 CSX Reefer w/EDT | 24.95 |
| 9512 Wright Brothers Reefer | 19.95 |
| 9513 Ben Franklin Reefer | 19.95 |
| 9655 Amtrak Tool Car | 24.95 |
| 9909 I Love New Jersey Box Car | 19.50 |

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| 6619 Washco Coal Dump Car | 19.75 |
| 6621 Alaska Log Dump Car | 19.75 |
| 6624 New Haven Cop & Hobo | 31.50 |
| 6625 NYC Extension Searchlight | 49.95 |
| 6632 Burlington No. Box w/Rail Sounds | 200.00 |
| 9656 Milwaukee Smoking Bulk Car | 48.95 |
| 9811 Monon Brakeman Car | 69.95 |

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| Scale Hudson 7000 w/display case | 1295.00 |
| 1201 Scale Rail Chief 4 Car Set | 495.00 |
| 18008 Disney Engine & Tender w/Case | 299.00 |
| 1713 Santa Fe Dash 840 B Set | 549.00 |
| 1715 90th Anniversary Set BLOWOUT 375.00 | |
| 7606 NYC Smoking Caboose | 99.99 |
| 7607 Reading Smoking Caboose | 99.99 |
| 7900 Santa Fe Unibody Tank Car | 49.95 |
| 7901 Chevron Unibody Tank Car | 49.95 |
| 8410 PA Burro Crane | 104.95 |
| 8411 Can. Pacific Fire Fighter | 88.95 |
| 8503 So. Pacific Switcher w/Bell | 269.95 |
| 9707 So. Pacific Searchlight Caboose | 85.95 |

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| 7611 NYC L-3 Mohawk & Caboose | 998.95 |
| 8204 Chessie SD40 Dummy CLOSETOUT 150.00 | |
| 9107 So. Pacific Full Dome Vista | CALL |
| 9515 Milwaukee Road Stock Car | 59.95 |
| 9910 Season's Greetings Car 0 Gauge SALE 19.95 | |
| 87007 Season's Greetings Car Large Scale | 49.95 |

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| 2761 Animated Ball Board | 31.95 |
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| 2768 Burning Switch Tower | 125.00 |
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| 2778 Arch under Bridge | 15.95 |
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| 2774 Lumber Loader Kit | 6.95 |
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| Lionel Catalogs 83,84,85,86,87,88,89,90, Ea. | 2.00 |
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NEW LIONEL TRAIN MANUAL 132 pages

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| Vol. 4 1970-1980 MPC SUPER SALE 19.98 | |
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| 5717 Santa Fe Bunk Car | 39.95 |
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| 5727 US Marine Bunk Car | 39.95 |
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| 5728 Canadian Pacific Bunk Car | SUPER SALE 19.99 |
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OPERATING CARS

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| 6610 Track Maintenance | 19.95 |
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| 9217 SMO Line Operating Box | 24.95 |
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| 9220 Borden's Operating Milk | 125.00 |
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| 9224 Horse Car & Corral | 179.95 |
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| 9228 CP Operating Box Metal Trks | SALE 24.95 |
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| 6126 Canadian National Ore Car | 29.95 |
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| 9300 PRR Ore Car | 29.95 |
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| 9301 Milwaukee Road Ore Car | 99.95 |
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| 9801 Poultry Dispatch Car | 59.95 |
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| 2704 Dwarf Signal | 17.95 |
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| 2127 Diesel Horn Shed | 49.95 |
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| 2128 Automatic Switchman | 39.95 |
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| 2700 Erie Magnetic Crane | 275.00 |
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| 2701 Op. Diesel Fueling Station | 125.00 |
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| 2702 Op. Control Tower | 125.00 |
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| 2703 Iceing Station | 65.95 |
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| 2708 3 Operating Street Lamps | 9.95 |
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| 2709 Banjo Signal | 32.95 |
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| 2713 Automatic Gateman (NEW, Yellow) | 49.95 |
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| 2714 Automatic Crossing Gate | 27.95 |
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| 2716 Searchlight Tower | 24.95 |
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| 2719 Refreshment Stand | 79.95 |
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| 2720 Metal Revolving Beacon | 49.95 |
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| 2722 Roadside Smoking Diner | 69.95 |
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| 2724 Operating Signal Bridge | 49.95 |
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| 2726 Grain Elevator | 21.95 |
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| 2283 Red Bumpers (2) Lighted Die Cast | 13.95 |
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| 2305 Oil Derrick & Pumper | 195.00 |
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| 2313 Floodlight Tower | 49.95 |
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| 2315 Operating Coaling Station | 195.00 |
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| 2318 Operating Control Tower | 125.00 |
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| 2323 Operating Freight Station | 125.00 |
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| 2324 Operating Switch Tower | 79.95 |
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| AF 42300 Oil Drum Loader | 195.00 |
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| AF 42321 Operating Sawmill | 195.00 |
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| 2755 High Trestle Set | 12.95 |
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| 12706 Barrel Loading Platform | 6.95 |
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| 2181 Telephone Poles - A Bunch | 4.50 |
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| 2730 Plate Girder Bridge | 6.95 |
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| 2320 Flag Pole w/Base Discontinued | 9.55 |
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| 2709 Rico Station | 24.95 |
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| 2707 Billboards | 5.50 |
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| 2710 Engine House | 22.95 |
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| 2711 Water Tower | 11.95 |
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| 2717 3 Plastic Bumpers | 3.95 |
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| 12716 Short Extension Bridge | 5.50 |
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| 12718 Barrel Platform | 5.50 |
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| 12731 Station Platform | 5.50 |
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| 12733 Watchman's Shanty | 5.50 |
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| 12705 Lumber Shed | Pr. 5.95 |
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| 1715 Lighted Bridge w/Piers | 26.95 |
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| 2721 Lighted Extension Bridge w/Piers | 26.95 |
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| 2722 Auto. Operating Semaphore | 27.95 |
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| 2723 Microwave Relay Tower | 23.95 |
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| 2727 Op. Semaphore Signal | 28.95 |
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| 2728 Illuminated Freight Station | 39.95 |
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| 2729 Mail Pickup Set | 23.95 |
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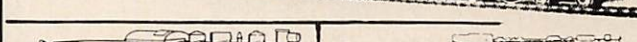


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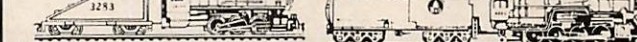
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| Canadian National (Black/Green) | | | | | | | |
| CNJ (Blue Comet) (Blue/Cream) | | | | | | | |
| Chesapeake & Ohio (Blue/Yellow) | | | | | | | |
| Chicago & Alton (Red/Maroon) | | | | | | | |
| Lackawanna (Pullman Green) | | | | | | | |
| Lehigh Valley (Pullman Green) | | | | | | | |
| Lehigh Valley (Tuscan) | | | | | | | |
| Milwaukee Road (Orange/Brown) | | | | | | | |
| New Haven (Black/Orange) | | | | | | | |
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| Pennsylvania (Tuscan) | | | | | | | |
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| Santa Fe (Dark Green) | | | | | | | |
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| Southern Pacific (Pullman Green) | | | | | | | |
| Union Pacific (2-Tone Grey) | | | | | | | |
| Union Pacific (Yellow) | | | | | | | |
| Wabash (Blue/Silver) | | | | | | | |
| Missouri Pacific | | | | | | | |
| 1930 Roadnames Undecorated | | | | | | | |
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| Amtrak (Silver/Red/Blue) - Rock Island | | | | | | | |
| Baltimore & Ohio (Blue/Grey) - RF&P | | | | | | | |
| Burlington Northern (Green/White) - NJT | | | | | | | |
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| Great Northern (Brown/Orange/Gold) | | | | | | | |
| Gulf, Mobile & Ohio (Red/Maroon) | | | | | | | |
| Illinois Central (Brown/Orange) | | | | | | | |
| Kansas City So. (Black/Yellow/Red) | | | | | | | |
| Lackawanna (Maroon/Grey) | | | | | | | |
| Missouri Pacific (Blue/Grey) | | | | | | | |
| New York Central (2-Tone Grey) | | | | | | | |
| Norfolk & Western (Maroon/Gold) | | | | | | | |
| Northern Pacific (Green/Brown) | | | | | | | |
| Pennsylvania (Tuscan) | | | | | | | |
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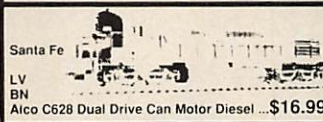
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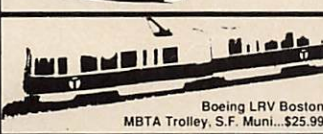
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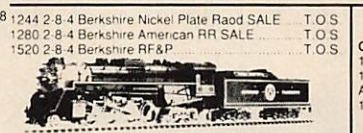


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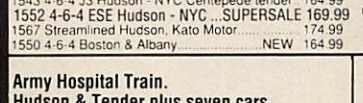
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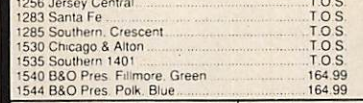
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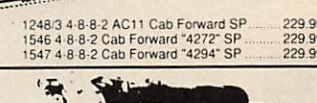
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SCALECRETE SCENIC MATERIAL

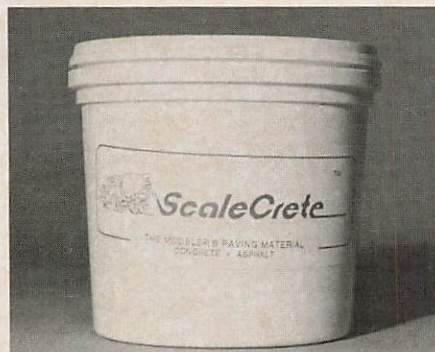
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AS ITS NAME implies, ScaleCrete is a modeling compound that closely resembles concrete, but with an extremely fine grain. It can be used for modeling many prototype features that are made of concrete, such as highways, streets, curbs, sidewalks, building foundations, and bridge abutments.



ScaleCrete is a latex-based material that's similar to spackling compound, except that it has a gritty texture. The material comes packed in a one-quart container, ready to apply.

The comprehensive instructions recommend practicing on a sheet of plywood (or whatever material you'll use as a base under the ScaleCrete). I did that, trying several methods of applying, carving joints, coloring, and weathering it. The color photo shows the resulting concrete street, curb, and sidewalk.

To build a street with ScaleCrete, mark the edges of the pavement with masking tape. Use a wide putty knife to apply the material to the area. You can use stripwood or styrene forms to guide the knife and set the height of the road, but I found this unnecessary. It's fairly easy to use the putty knife by itself to level the material until it's about $\frac{1}{8}$ " thick. The more you work the material, the smoother and more level it becomes. I recommend keeping the putty knife wet (with water) and almost parallel with the ScaleCrete surface. This helps keep the material from sticking to the tool and pulling away from the base.

As you apply the ScaleCrete, don't worry too much about keeping the edges even with the masking tape. After you've finished smoothing it, use a hobby knife to trim the edges as the blade will easily follow the masking tape guide. After forming the pavement in place, I let the material dry overnight. Tools clean up with soap and water.

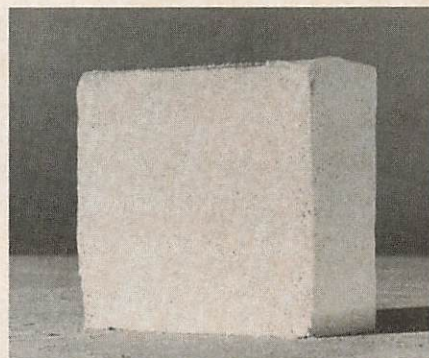
Forming the curb and sidewalk wasn't as easy. ScaleCrete becomes more difficult to work with at thicknesses less than $\frac{1}{8}$ ". To get the proper height for an HO scale curb (about $\frac{1}{16}$ "), I used a piece of $\frac{1}{16}$ " stripwood as a guide for the putty knife. Even with that, it was difficult to get both the curb and the sidewalk level.

ScaleCrete's best feature is its resemblance to concrete. It dries very hard to a light grayish-tan color. The instructions recommend several different mixtures for painting and weathering the material. I suggest experimenting until you find the mix you like.

The instructions also state that any desired expansion joints should be carved before the material fully hardens. I did this with the sidewalk, but I carved the joints in the street after the material had dried. This resulted in some chipping along the joint lines — exactly the effect you can find in a full-size concrete street.

I used artist's tube acrylics to give my street a light wash of gray. To do this, I first put about an inch of water in a paper cup and then mixed in small amounts of black and white paint until I had the desired shade of gray. Next, I applied the wash to the street. This proved quite effective, as some of the tan highlights showed through the grayish tone.

Using a hobby knife I chipped away some areas along the joint lines to make the street look like it was in need of repair. I added the center lines with a yellow pencil. Gray powdered chalk applied with a brush down the center of each lane completed the weathering.



I wanted to see if it was possible to work with ScaleCrete on a vertical surface, such as a bridge abutment. The photo above shows that it can be done.

Reviewed in this issue:

| | |
|--|-----|
| CS Design multiscale ScaleCrete scenic material | .49 |
| Hallmark Models N scale Santa Fe Hi-Level passenger cars | .51 |
| Design Preservation Models N scale two-story factory | .58 |
| Omnicon Scale Models S scale PRR 2-10-0 Decapod | .62 |
| Tomar Industries HO scale marker lights | .68 |

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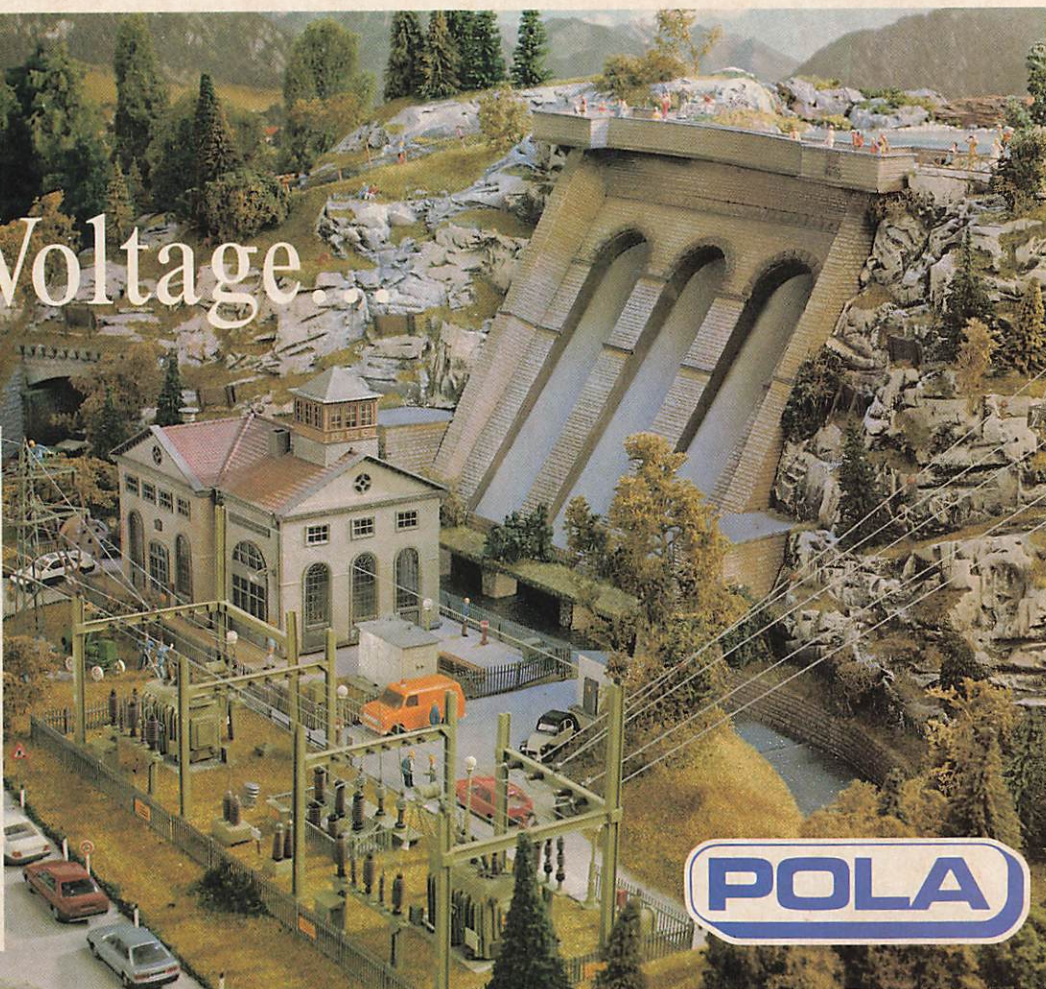
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I used a wood block as a form and applied the ScaleCrete around it. To do this, use two putty knives: one to hold the material in place on one side, and the other to smooth the material on an adjoining side. This method can be used for bridge abutments and concrete walls, among other applications.

Abutments and other assemblies can also be built on the workbench and transferred to the layout. ScaleCrete sticks very well to most surfaces. In fact, once this material has dried it's difficult to chisel off of plywood. If you

use wood or styrene forms to shape the material, be sure to remove the forms before the ScaleCrete fully sets.

Be aware that it takes some time and practice to get the feel of working with ScaleCrete (my initial results were rather discouraging). If the same thing happens to you, keep trying and experimenting before using it on any "real" applications. Once I got the hang of it, I found Scalecrete to be a useful modeling material. I think most modelers will come up a variety of applications for it. — Jeff Wilson



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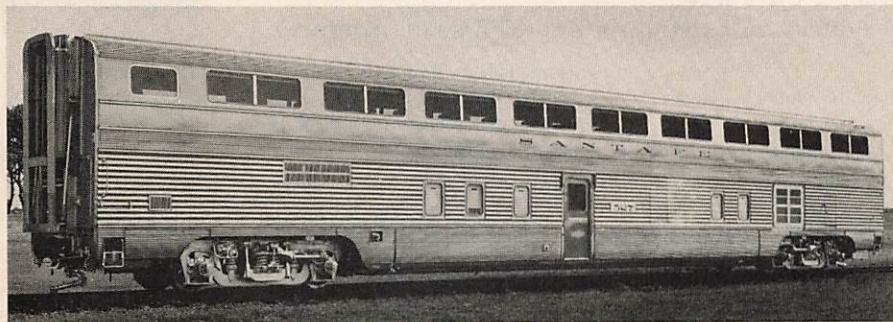
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Capacity was a major problem as existing *El Capitans* were nearing the practical limits of train length. Other

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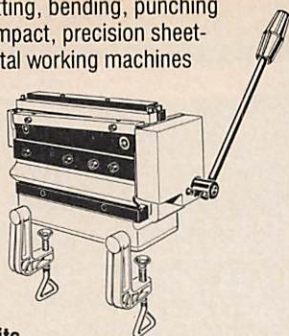
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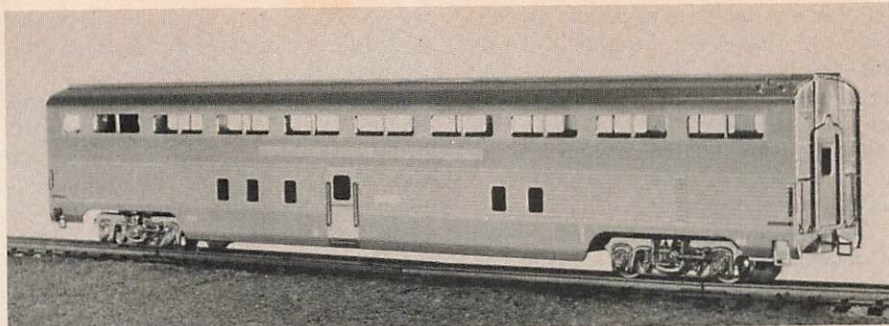
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the ends. Passengers ascended an interior stairway to reach the upper deck, which was devoted entirely to seating.

The lower deck of the coaches contained the rest rooms, crew rooms, and luggage storage. Each car's mechanical and air-conditioning equipment was built into the abbreviated headroom spaces directly over the trucks.

All six dining cars (nos. 650-655) had lower-deck kitchens with a system of dumbwaiters (called subveyors) as well as a stairway for access to the upper-level dining room. Diners were quite heavy; as a result, these were the only Hi-Level cars that were outfitted with six-wheel trucks.

The lounge cars (nos. 575-580) had bars and seating on both the upper and lower levels. A second row of curved windows was built into the tops of the sides to enhance sight-seeing.

A set of classic warbonnet EMD F7 locomotives was assigned to pull each *El Capitan*. Regular streamlined baggage and mail cars came next, followed by a unique transition car. The railroad modified four of these cars (nos. 3477, 3478, 3479, and 3482) from streamlined baggage-dormitory cars. These single-level cars had a fairing added on the roof to make the transition to the tall cars look better and lessen wind resistance.

Until mid-1958 *El Capitan* remained the only Santa Fe train with Hi-Level cars. By that time, though, jet airliners were luring away more and more long-distance travelers and *El Capitan* was merged with the *Super Chief* to become the *Super Chief/El Capitan*, featuring Pullman sleepers and Hi-Level cars.

In 1964 the Santa Fe took delivery of 24 more Budd-built Hi-Level chair cars (nos. 538-549 and 725-736). Eventually,

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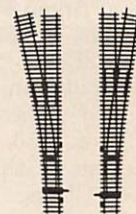
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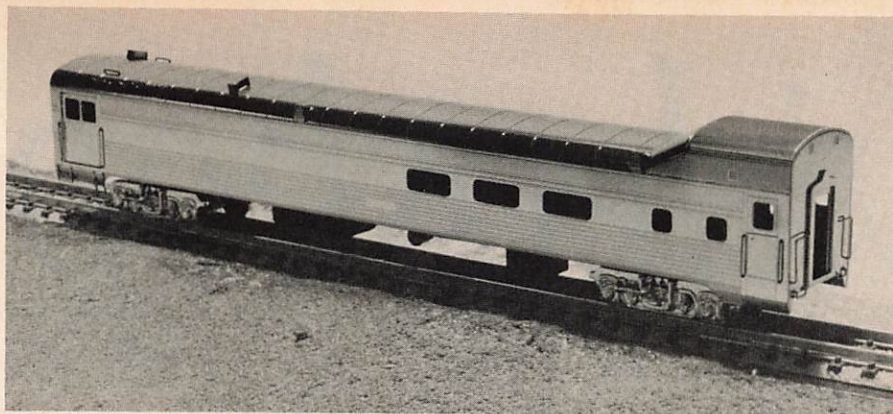
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Hi-Level cars were used on the *San Francisco Chief* and the *Texas Chief*. In 1971 the Santa Fe joined Amtrak, and the Hi-Level cars took on red, white, and blue stripes and continue in Amtrak service, where you can ride them today.

Hallmark's N scale Hi-Level cars were made in Japan by Kumata. The six-car set includes a transition car, three chair cars, a lounge car, and a dining car. To re-create the prototype's sleek stainless-steel look, the sides and ends are photoetched in brass and nickel-plated.

The trucks are plated brass castings that are a bit rough. A wash of black paint would improve their appearance. Checking the wheelsets for proper gauge and flange depth with the NMRA's Mark IV gauge, I found they were right on.

These 80-foot cars check out well against the plans included in *Santa Fe's Hi-Level Cars*, by Dennis J. Kogan, Larry Occhiello, and Nelson H. McCormick (Prototype Modeler Inc., 1975).

Rubbery diaphragms are included for attachment to the ends of the cars. (I would use Walthers Goo for this.) Also packed separately is a radio antenna for the transition car. (There are predrilled holes in the roof for attaching it.) Screws and washers for mounting couplers are included, and the cars are designed to accept Micro-Trains' no. 1023 couplers.

These are beautiful models that reflect a most interesting chapter in the history of our nation's railroad passenger service. — *Jim Kelly*

More Product Reviews on page 58

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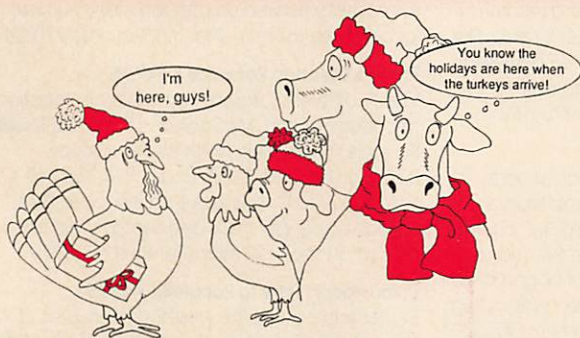
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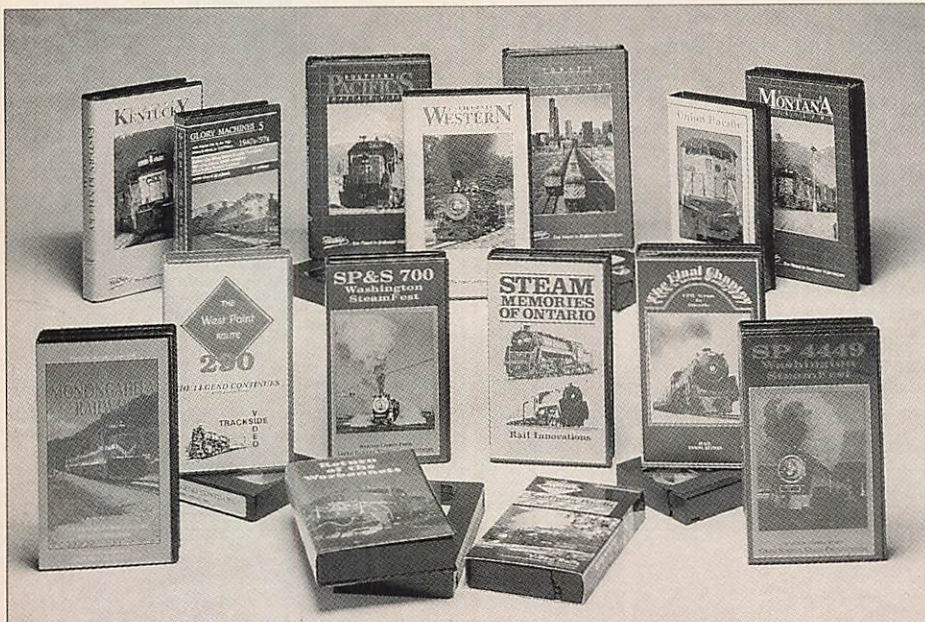
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The Final Chapter —

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A look back at the last two years of CPR steam in Ontario, including final fantrips, as documented on 16mm film by W.H.N. Rossiter. Be privy to firsthand accounts as three CPR engineers relate their experiences while working many of the locomotives. 30 min. (Rail Innovations) #70332V

Glory Machines Vol. 5, 1940's - 50's • \$39.95

16mm footage highlights 30 roads during the exciting era of American Steam and early transition years to diesel. Stop at the St. Louis and Kansas City Union Stations, then climb aboard a Southern 4-6-2 paced out of Memphis. The Louisiana shortlines also make for two excellent historical segments. 44 min. (Herron Rail Services) #70318V

Monongahela Railway • \$39.95

Revel in the beautifully scenic Western Division branches of this major coal hauling railroad. Unit trains, motive power and Monongahela's own Super 7's make their way through the awesome countryside of Pennsylvania and West Virginia. Plus, you'll see four and six axle EMD and GE powered trains including the new comfort cab 4000 HP Conrail units. 60 min. (Green Frog) #70335V

The Montana Rail Link • \$39.95

One of the country's newest regional railroads, the MRL operates high tonnage across Mullan and Bozeman Passes in beautiful "Big Sky" country. Tour the entire length of the railroad from Jones Junction to Sandpoint, Idaho. Local freights and Burlington Northern hotshots are seen while riding over mountainous terrain. 70 min. (Pentrex) #70329V

Return of the Warbonnets • \$49.95

Warbonnet diesels made history across the Santa Fe rails, setting the stage for today's Super Fleet FP45s, GP60s and Dash 8-40Bs. Thrill to high-speed trailer and container trains, from the midwest to the west coast and Texas, plus the inaugural run of the new GP60s. 90 min. (Gandy Dancer) #70327V

Southern Pacific's Shasta Division • \$39.95

Long summer days and snow-covered mountains serve as seasonal backdrops along scenic routes in northern California. Climb aboard in Redding, CA, cross high trestles, skirt around the base of Mt. Shasta and grind up the steep grades to the summit at Grass Lake. 60 min. (Pentrex) #70333V

Southern Pacific — The Coast Line, Vol. V • \$39.95

Rare, historical footage from the 1950's lets you experience dynamic steam engines in action. World-famous Daylight trains race up and down the coast, while Southern Pacific Black Widow units struggle to pull heavy freight. Watch as the big Cab Forwards pull freight trains and thrill to the sight of steam and diesel doubleheaders. 30 min. (Video Rails) #70328V

SP 4449 — Washington Steamfest • \$34.95

Southern Pacific's 4-8-4 No. 4449 makes its only trip of 1990 from Portland for the Washington Steamfest in Yakima — and you are there! Climb aboard and enjoy beautiful scenery along the Columbia River Gorge and on the Washington Central Railroad in the Yakima River Canyon. 60 min. (Greg Scholl Videos) #70330V

SP & S 700 Washington Steamfest • \$34.95

The Spokane, Portland, and Seattle Railroad 4-8-4 No. 700 makes its first tour since being restored to active service. Be a part of the 1938 Baldwin locomotive run between Portland and Pasco for the 1990 Washington Steamfest. 60 min. (Greg Scholl Videos) #70331V

Steam Memories of Ontario • \$39.95

Superb 16mm color footage recalls the final years of regular service steam in Ontario with mainline and branch operations. Narrated by five railroaders who worked and ran many of these locomotives. 57 min. (Rail Innovations) #70324V

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Visit 19 different railroads from inner city locations to popular Dolton, McCook and State Line Towers. Santa Fe Warbonnets, North Western Geeps, Burlington Northern E-Units and Belt Railway of Chicago Alco C-424s make up the roster. Plus, Amtrak passenger trains and Santa Fe pig trains are a must see! 120 min. (Pentrex) #70337V

Union Pacific Rails to Pocatello • \$39.95

Excitement powers the westbound engines of Union Pacific Railroad's Green River division. See EMD Super Cab SD 60s and GE Super Cab Dash 8-40Cs working the canyons and valleys as they journey 210 miles from Granger, Wyoming to Pocatello, Idaho. 60 min. (Gandy Dancer) #70325V

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The Atlanta & West Point 290, while in passenger service between Atlanta and Montgomery, has become a true legend of the old south. Travel along the inaugural run from Atlanta to Macon and the first revenue runs on the Atlanta Loop. A historical look at the famous 290 prior to restoration is also featured. 58 min. (Trackside Video) #70323V

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| | |
|--|-----------|
| 91041 0-4-0 Tank Loco w/Light | 59.95 |
| 91101 Old Time Baldwin 2-4-2 w/Tender, Smoke, Light, & Sound, U.P. | 79.95 |
| 91114 Modern Baldwin 2-4-2 w/Tender, Smoke, Light, & Sound, P.A. | 79.95 |
| 91202 4-6-0 Baldwin w/Tender, Smoke, Light, & Sound, S.Fe | 99.95 |
| 91243 4-6-0 Baldwin w/Tender, Smoke, Light, & Sound, B&O | 99.95 |
| 93938 Open Air Street Car U.E. | NEW 69.95 |
| 93939 Closed Street Car U.E. | NEW 69.95 |
| 96201 Gandy Dancer | 39.95 |

ARISTOCRAFT G GAUGE

Free Shipping on Aristocraft Orders in Cont. U.S.

| | |
|---|--------|
| 22000 ALCO FA-1 NYC, B&O, PA, SP, S. Fe & All New Roadnames | 139.95 |
| 22050 ALCO FB-1 NYC, B&O, PA, SP, S. Fe & All New Roadnames | 139.95 |
| 22100 GEU25B All Roadnames | 159.95 |
| 21400 Pacific 4-6-2 PRR, B&O, Milwaukee, CNJ, So. Crescent, NYC, UP | 224.95 |
| 21800 Tender with Sound For Pacific 4-6-2 | 74.95 |
| Rea Catalog | 2.95 |
| 46601 Rea Truss Reeler | 29.95 |
| 41300 Tank Cars - Dow, Hooker, Mobil, Sinclair | 29.95 |
| 46500 Piggyback Cars - Rea, B&O, SP, SFe | 38.95 |
| 22000 Alco FA-1 - NYC, So. Pac, S. Fe, Penn. | 129.95 |
| 22050 Alco FB-1 - NYC, So. Pac, S. Fe, Penn. | 129.95 |
| 42200 Bobber Caboose - Penn., NYNH, Undec | 18.95 |

LGB TRAIN SETS

| | |
|-------------------------------------|--------|
| 22301 Lake George & Boulder Pass. | 194.95 |
| 22401 Lake George & Boulder Freight | 194.95 |
| 21988 Circus Set | 179.95 |
| 21990 Industrial Freight Set | 164.95 |
| 23301 Passenger Set w/Smoke | 229.95 |
| 23401 Freight Set w/Smoke | 229.95 |
| 21540 Christmas Set | 349.95 |

LGB LOCOMOTIVES

| | |
|-----------------------------------|--------|
| 2001 Inspection Car | 58.95 |
| 2015D 0-4-0 Loco w/Smoke | 234.95 |
| 2017D U.S. 0-4-0 Loco w/Smoke | 234.95 |
| 2019S Mogul & Tdr w/Smoke & Sound | 699.95 |
| 2040 Crocodile Loco - Brown | 349.95 |
| 2045 Electric Swiss Loco | 269.95 |
| 2055 White Pass Diesel | 410.00 |
| 2060H Diesel Loco w/Horn - Yellow | 154.95 |
| 2071D 0-6-2 Steam Loco w/Smoke | 169.95 |
| 2073D 0-6-2 Steam Loco w/Smoke | 169.95 |
| 2074D Spreadwail Loco w/Smoke | 279.95 |
| 2078 French 0-6-0 Loco - Green | 239.95 |
| 2117/6 Motorized Tender | 94.95 |
| 2119D Mogul & Tender - Yellow | 395.00 |
| 2146 Swiss Rack Rail Loco | 309.95 |
| 21555 White Pass Diesel w/Sound | 699.00 |
| 2219S Mogul & Tdr w/Smoke & Sound | 649.00 |

LGB PASSENGER CARS

| | |
|----------------------------------|-------|
| 3010 Coach - Green | 51.95 |
| 3011 Coach - Red & Beige | 52.95 |
| 3013 Dining Car - Blue | 52.95 |
| 3019 Baggage Car w/Ltd. Interior | 71.95 |
| 3025 RHB Passenger Coach | 52.95 |
| 3036 Circus Passenger Car | 53.95 |
| 3041 Open Excursion Car | 21.95 |

LGB PASSENGER CARS (con't)

| | |
|--------------------------------------|--------|
| 3050 Compartment Coach - Green | 69.95 |
| 3067 Swiss Pass. Car RHB | 199.95 |
| 3068 Swiss Dining Car RHB | 239.95 |
| 3080E01 Pennsylvania Coach | 69.95 |
| 3080E02 Pennsylvania Combine | 69.95 |
| 3082 D & RG Coach | 94.95 |
| 3083 D & RG Combine | 94.95 |
| 3106 Wuerlttemberg Coach | 49.95 |
| 3107 Zillertalbahnhof Coach | 43.95 |
| 3167 Composit Coach RHB - Green | 159.95 |
| 3180 U.S. Pass. Coach - Red & Silver | 84.95 |
| 3181 U.S. Combine - Red & Silver | 84.95 |
| 3280 Coach - Pennsylvania - Tuscan | 69.95 |
| 3281 Combine - Pennsylvania - Tuscan | 69.95 |
| 3530 Catenary Tower Wagon | 26.95 |
| 9000E Cableway | 69.95 |

LGB FREIGHT CARS

| | |
|-----------------------------------|-------|
| 4023 Low Sided Platform Car | 29.95 |
| 4024 High Sided Platform Car | 29.95 |
| 4025 Cement Car | 60.95 |
| 4026 Becks Beer Car | 60.95 |
| 4036 Circus Wagon | 45.95 |
| 4037 Circus Wagon w/Cage | 45.95 |
| 4038 Circus Wagon w/Cage | 45.95 |
| 4040B BP Tank Wagon | 47.95 |
| 4040E Esso Tank Wagon | 47.95 |
| 4040L Leuna Tank Wagon | 47.95 |
| 4040S Shell Tank Wagon | 47.95 |
| 4042 Crane Wagon | 60.95 |
| 4049 Searchlight Car | 94.95 |
| 4055 Cement Wagon | 52.95 |
| 4065 American Caboose - Red | 52.95 |
| 4066 American Lumber Car - Green | 39.95 |
| 4068 American Stock Car - Green | 56.95 |
| 4073 High Sided Gondola | 51.95 |
| 4074Z02 Schlitz Reeler | 59.95 |
| 4076 Hopper w/Coal Load | 59.95 |
| 4078 Pulpwood Car | 72.95 |
| 4080Y01 Transcontinental Tank Car | 51.95 |
| 4110 Low Sided Wagon | 39.95 |
| 4111 Hinge Hatched Wagon | 39.95 |
| 4124 High Sided Wagon | 39.95 |
| 4135S Covered Wagon w/Sound | 96.95 |
| 4165 Circus Caboose | 60.95 |
| 4169 Wood Wagon | 60.95 |
| 4174 Fruit Refrigerator Car | 72.95 |

LGB TRACK & RELATED ITEMS

| | |
|------------------------------|--------|
| 1002 Re-railer | 9.95 |
| 1004 5.78 Short Tracks - ea. | 3.50 |
| 1009 Expandable Track | 13.95 |
| 1015 6" Straight Track | 3.50 |
| 1015K Reversing Loop Set | 29.95 |
| 1015T Double Ins. Track | 14.95 |
| 1015U Single Insulated Track | 14.95 |
| 1031 Illuminated Bumper | 7.50 |
| 1052 Uncoupler | 3.50 |
| 1056 Electric Uncoupler | 28.95 |
| 1060 Straight Track | 6.50 |
| 1100 Curve Track (12) | 40.95 |
| 1102 04 Short Track - ea. | 3.50 |
| 1200 Manual Switch - Right | 23.95 |
| 1205 Electric Switch - Right | 34.95 |
| 1210 Manual Switch - Left | 23.95 |
| 1215 Electric Switch - Left | 34.95 |
| 1226 Double Slip Switch | 94.95 |
| 1236 Three Way Switch | 94.95 |
| 1300 30" Crossing | 27.95 |
| 1310 90" Crossing | 27.95 |
| 1600 Curved Track | 6.50 |
| 1605 Electric Switch - Right | 43.95 |
| 1615 Electric Switch - Left | 43.95 |
| 20901 Small Supplemental Set | 53.95 |
| 20902 Large Supplemental Set | 83.95 |
| 5175 Switch Controller | 35.95 |
| 1000/3 Track Bed Set | 79.95 |
| 1000/5 Rail Set For 1000/3 | 119.95 |

LGB ACCESSORIES

| | |
|---------------------------|--------|
| 5001 Smoke Fluid | 6.95 |
| 5004 Track Cleaning Block | 7.95 |
| 5001/9 Oilier | 4.95 |
| 1001 Track Template | 24.95 |
| 0090 Reversing Unit | 99.95 |
| 0028E Track Planning Book | 48.95 |
| Figure Sets ea. | 12.95 |
| 5065 Level Crossing | 39.95 |
| 5050 Station Lamp | 8.95 |
| 5034 Platform Set | 28.95 |
| 5056 Twin Station Lamp | 19.95 |
| 5061 1200mm Bridge | 109.95 |

BACHMANN HO STEAM LOCOS

| | |
|----------------------------------|-------|
| 535 Overland 4-8-4 with Smoke UP | 49.95 |
| 540 Niagara 4-8-4 with Smoke NYC | 49.95 |
| 545 Mikado 2-8-2 w/Smoke | 39.95 |
| 550 Daylight GS4 4-8-4 | 49.95 |
| 658 N&W | 49.95 |
| 580 Northern w/Smoke | 49.95 |

HO ORIENT EXPRESS SET

By Model Power
Includes Loco, 4 Cars, Track, Transformer
\$99.95

HO PRUSSIA TRAIN SET

By Bachmann
Includes Track & Transformer... 49.95

BACH HO DIESELS

| | |
|--------------------------------|-------|
| 655-05 GE E60P Electric Amtrak | 24.95 |
| 600 Plymouth 0-6-0 SF, BI | 10.95 |
| 615 EMD F9 SF | 12.95 |
| 665 DD40AX UP | 29.95 |
| 670 SD40-2 w/bl, lite | 21.95 |

ATLAS HO TRACKAGE

| | |
|----------------------------|----------|
| 104 3' Flex Track - Brass | 10/13.95 |
| 168 3' Flex Track - Nickel | 10/14.95 |
| 50 51 Remote Switch | 5.95 |
| 850, 851 NS Switch | 6.25 |

KATO N GAUGE SETS

| | |
|-------------------------------------|--------|
| 10-158 Panorama Exp. Alps Set | 114.95 |
| Bullet Train 6 Car Set | 109.95 |
| TGV 6 Car Set | 109.95 |
| 10-168 211 Double Decker 7 Car Set | 129.95 |
| 10-170 221 Type 6 Car Touring Set | 139.95 |
| 10-157 N205 Type Subway Set | 129.95 |
| 10-165 Super Hitachi Add-on Set | 74.95 |
| 10-175 113 Type Yokosuka 6 Car Set | 102.95 |
| 10-182 TGV Add-on Set | 44.95 |
| 10-177 Super View Odoriko 6 Car Set | 119.95 |
| 10-304 Hokkaido 4 Car Set | 99.95 |

KATO N GAUGE UNITRACK

| | |
|---------------------------------|-------|
| 20-000 248mm St. Track | 13.50 |
| 20-010 186mm St. Track | 11.99 |
| 20-020 124mm St. Track | 11.25 |
| 20-021 124mm Rd. Crossing Track | 9.50 |
| 20-030 64mm St. Track | 3.15 |
| 20-032 64mm Mag. Uncoupler | 2.25 |
| 20-033 64mm Bumper | 2.25 |
| 20-040 62mm St. Track | 9.75 |
| 20-041 62mm Feeder Track | 2.70 |
| 20-045 64mm Conversion to Atlas | 1.50 |
| 20-050 Expansion Track | 4.50 |
| 20-100 R249-45 Curved Track | 11.99 |
| 20-110 R282-45 Curved Track | 13.50 |
| 20-111 R282-15 Curved Track | 10.49 |
| 20-120 R315-45 Curved Track | 13.50 |
| 20-121 R315-15 Curved Track | 10.49 |
| 20-130 R348-30 Curved Track | 11.99 |
| 20-132 R348-45 Curved Track | 14.99 |
| 20-140 R381-30 Curved Track | 11.99 |
| 20-150 R7-18-15 Curved Track | 14.99 |
| 20-202 Ele. Turnout Left #6 | 11.99 |
| 20-203 Ele. Turnout Right #6 | 14.99 |
| 20-207 Ele. Turnout Left #4 | 17.95 |
| 20-208 Ele. Turnout Right #4 | 17.95 |
| 20-210 Double Crossover | 41.50 |
| 20-300 15 Crossing Left | 5.99 |
| 20-320 15 Crossing Right | 5.99 |

KATO N GAUGE UNITRACK VIADUCTS

| | |
|-------------------------------|-------|
| 23-014 50mm Piers | 3.90 |
| 23-015 15-50mm Incline Set | 6.85 |
| 23-016 Gradual Inclines Set | 5.99 |
| 23-025 248mm St. Viaduct | 13.50 |
| 23-026 186mm St. Viaduct | 12.60 |
| 23-027 124mm St. Viaduct | 11.99 |
| 23-028 62mm St. Viaduct | 8.59 |
| 23-035 R249-45 Curved Viaduct | 12.60 |
| 23-036 R282-45 Curved Viaduct | 15.50 |
| 23-037 R315-45 Curved Viaduct | 14.25 |
| 23-038 R315-30 Curved Viaduct | 12.60 |
| 23-039 R381-30 Curved Viaduct | 12.60 |
| 23-045 R348-45 Curved Viaduct | 14.25 |

KATO N GAUGE BRIDGES & STRUCTURES

| | |
|----------------------------------|-------|
| 23-040 248mm Truss Bridge | 9.00 |
| 23-070 186mm Plate Girder Bridge | 6.39 |
| 20-806 Island Platform Complete | 17.99 |
| 20-815 One Sided Platform Set | 17.99 |
| 23-200 Overhead Station Kit | 13.99 |
| 23-300 Long Engine House Kit | 10.99 |
| 23-310 Industrial Building Kit | 17.75 |
| 23-500 N. Toyota Autos | 5.25 |

KATO N GAUGE UNITRACK SETS

| | |
|-----------------|-------|
| K-1 Starter Set | 26.70 |
| K-2 Starter Set | 53.50 |
| K-3 Viaduct Set | 83.50 |

KATO HO UNITRACK

| | |
|------------------------------|-------|
| 3-101 HO Standard Track Set | 84.99 |
| 2-120 114mm St. Track | 17.99 |
| 2-150 246mm St. Track | 18.99 |
| 2-151 246mm Feeder Track | 3.59 |
| 2-210 R550-22.5 Curved Track | 18.95 |
| 2-220 R610-22.5 Curved Track | 18.95 |
| 2-240 R730-22.5 Curved Track | 22.50 |
| 2-250 R790-22.5 Curved Track | 23.99 |
| 2-850 Ele. Turnout, Left #4 | 29.99 |
| 2-851 Ele. Turnout, Right #4 | 29.99 |
| 2-861 Ele. Turnout, Left #6 | 34.99 |
| 2-862 Ele. Turnout, Right #6 | 34.99 |
| 5-101 HO Bumper | 7.79 |

KATO N AND HO ACCESSORIES

| | |
|-------------------------------|------|
| 20-500 Turnout Control Switch | 5.25 |
| 20-503 Turnout Extension Cord | 2.25 |
| 20-504 D C Converter | 4.50 |

KATO N AND HO ACCESSORIES (con't)

| | |
|----------------------------------|------|
| 20-900 N Scale Unitrack Template | 7.49 |
| 24-000 N Scale Rerailer | 4.49 |
| 24-815 Unjoiners | 3.45 |
| 24-816 Insulated Unjoiners | 3.45 |
| KATO Catalog | 9.95 |

BACHMAN N SCALE LOCOS

| | |
|-----------------------------------|-------|
| 547 Shifter & Tdr | 16.95 |
| 505 USRA 0-6-S Fe | 17.95 |
| 510 American 4-4-0 U.P. | 22.95 |
| 526 Dockside 0-4-0 S. Fe | 14.95 |
| 530 Consolidation 2-8-0 GN | 29.45 |
| 545 Mikado 2-8-2 B&O UP | 31.95 |
| 580 Northern 4-8-4 Burlington, SF | 34.95 |
| 515 Prairie 2-6-2 UP | 22.95 |
| 658 N & W | 34.95 |
| 535 Overland 4-8-4 | 35.95 |

| | |
|---|-------|
| 600 Plymouth | 10.95 |
| 655-01 DD40AX | 24.95 |
| 635-00 END GP40 S. Fe BN, SP, Burl | 17.95 |
| 640-00 GE U36B S. Fe, SP, Rock, Chessie | 17.95 |
| 655 E60 Amtrak | 22.95 |
| 615 EMD F-9 SF, AMT, CH, PRR | 15.50 |
| 670 EMD SD40-UP, SF, BN | 17.95 |
| 612 EMD GP50 UP, SF, BN, EL | 19.95 |

N GAUGE MINITRIX LOCOS

| | |
|--|-------|
| K-4 Pacific SF, PA | 52.95 |
| Decapod 2-10-0 SF, PA | 52.95 |
| GE U30 with Headlight-AM, GN, PC | 36.95 |
| 0-6-0 Steam w/Tender, S. Fe, Penn, B&O | 36.95 |
| GE U-28 C Diesel-NP, SF, Penn | 36.95 |
| Old Time 0-6-0 UP, PA, SF | 39.95 |
| F9 Diesels - PA, PC, SF, UP | 36.95 |

LIFE-LIKE F7 DIESEL

BN, So. Pac., Southern
\$16.95

N GAUGE PASS. CAR

| | |
|-----------------------------------|------|
| 1041 54' Combine Ltd. - SF, PRR | 5.95 |
| 1042 65' Coach Ltd. - SF, PRR, UP | 5.95 |
| 1055 47' Old Time Combined-UP, CP | 4.95 |
| 1056 47' Old Time Coach-UP, CP | 4.9 |

1989 Lionel 1990

| | | |
|---------|---|-----------------|
| 6318 | Lionel Flat Car w/Cables | 17.00 |
| 8405 | Sante Fe Burro Crane | 89.00 |
| 8406 | Track Maintenance Car | 85.00 |
| 2315 | Coaling Station | 169.95 |
| 8408 | Santa Hand Car | 44.95 |
| 9002 | Penn. Dining Car | 39.00 |
| 9003 | Milwaukee Dining Car | 39.00 |
| 6624 | NH Cop and Hobo Car | 29.00 |
| 9599 | Old Glory Reefer Set (3) | 55.00 |
| 6034-39 | No. Pacific Passenger Set | 129.95 |
| 8607 | U.P. 2-6-4 Engine w/Smoke | 159.95 |
| 9811 | Monon Brakeman Car | CLOSEOUT 52.00 |
| 2701 | Op. Fueling Station | 139.00 |
| 6215 | Conrail Two Tier Auto Carrier | 28.95 |
| 9910 | 1990 Seasons Greeting Car | CLOSEOUT 20.00 |
| 9515 | Milwaukee Road Stock Car | 27.95 |
| 8005 | 700E 4-6-4 Hudson w/Showcase and Railchief Cars | SPECIAL 1795.00 |
| 9654 | Amtrak Bunk Car | 25.75 |
| 7603 | Rock Island Caboose | 49.00 |

1991 Lionel Limited Collector Series

| | | |
|---------|---------------------------------|----------------|
| 8007 | So. Pac. GS2 Daylight | 589.00 |
| 8011 | Chessie T-1 w/7608 Caboose Sale | 895.00 |
| 8010 | Pennsylvania S-2 6-8-6 Turbine | 1495.00 |
| 1702 | Pennsylvania N-8 Caboose | 249.00 |
| 8304 | Lackawanna Commuter Cars | 449.00 |
| 1722 | Giris Train Set | CALL FOR PRICE |
| 9015-18 | Madison Car Set | 499.00 |
| 1401 | Semi-Scale Shell Tank Car | 114.95 |
| 1501 | Semi-Scale Penn Box Car | 114.95 |
| 1701 | Semi-Scale B & O Hopper | 114.95 |
| 7004 | Semi-Scale NYC Caboose | 119.95 |
| 7109 | Standard O Mkt Hopper | 33.50 |
| 7100 | Standard O N & W Hopper | 34.50 |
| 7111 | Standard O U.P. Hopper | 36.95 |
| 7203 | Standard O Reading Hopper | 36.95 |
| 7204 | Standard O Cotton Belt Box Car | 39.95 |
| 7902 | Standard O Mo. Pac. Box Car | 39.95 |
| 7903 | Standard O N.J. Zinc Box Car | 49.95 |
| 8003 | Standard O Conoco Tank Car | 49.95 |
| 9601 | AF Mo. Pac. PA-1 Pass. Set | 514.95 |
| 8914 | AF New Haven EP5 | 229.95 |
| 8914 | AF Mo. Pac. Pass. Car | 51.95 |
| 8915 | AF Mo. Pac. Vista Dome | 51.95 |

1991 Lionel Stocking Stuffers

| | | |
|------|------------------------------------|----------------|
| 1726 | Erie Lackawanna Freight Set | 299.95 |
| 9108 | N & W Vista Dome car | 125.00 |
| 9406 | West Point Mint Car | 69.00 |
| 3425 | "Barnard" Blue Comet Passenger Car | 550.00 |
| 9913 | 1991 O Gauge Christmas Box Car | 23.95 |
| 8311 | 1991 AF Christmas Box Car | 34.95 |
| 9241 | Mickey Mouse Hi Cube Box Car | CALL FOR PRICE |
| 9242 | Donald Duck Hi Cube Box Car | CALL FOR PRICE |
| 9525 | Speedy Alka-Seltzer Reefer | 34.95 |
| 9526 | Jolly Green Giant Reefer | 34.95 |

1991 Lionel Train Sets

| | | |
|------|--------------------------------------|-----------------|
| 1720 | Sante Fe Special | 69.95 |
| 1714 | Badlands Express | 84.95 |
| 1721 | Mickey's World Tour Train | 103.95 |
| 1703 | Iron Horse Freight | 154.95 |
| 1602 | Nickel Plate Special | 189.95 |
| 1716 | Lionelville Circus Special | 207.95 |
| 1615 | Cannonball Express Set | 99.95 |
| 1713 | Sante Fe Dash 8 Set | 549.95 |
| 1711 | 90th Anniversary Set | CLOSEOUT 379.00 |
| 1758 | Desert King Set | 249.95 |
| 1719 | 1991 Coastal Ft. Service Station Set | 259.95 |
| | Fallen Flags #4 Western Md. Set | 449.00 |

1991 Lionel Engines

| | | |
|------|--------------------------------------|--------|
| 8620 | Illinois Central 2-6-2 Loco & Tender | 194.95 |
| 8811 | Alaska SD-9 Engine | 124.95 |
| 8413 | Charlie Brown and Lucy Hand Car | 51.95 |
| 8812 | Ks. City Southern GP38 Diesel | 132.95 |

1991 Lionel Rolling Stock

| | | |
|------|---------------------------------------|-------|
| 6104 | Sante Fe Tank Car | 18.95 |
| 6107 | Sunoco Two Dome Tank Car | 18.95 |
| 6333 | Frisco Bulkhead Car w/Load | 22.95 |
| 6334 | C & NW TTU X. Flatcar | 60.95 |
| 9307 | B & LE Ore Car w/Load | 17.95 |
| 9313 | B & O Ore Car w/Load | 17.95 |
| 9912 | "I Love Ohio" Box Car | 21.95 |
| 9230 | Frisco Double Door Box Car | 30.95 |
| 9409 | St. O Southern Flat Car | 22.95 |
| 9512 | Wright Brothers Reefer | 21.50 |
| 9513 | Ben Franklin Reefer | 21.50 |
| 9522 | Guglielmo Marconi Reefer | 21.50 |
| 9523 | Dr. Robbert Goddard Reefer | 21.50 |
| 9228 | Cotton Belt Box Car | 18.50 |
| 9231 | Tenn., Al., & Ga. Double Door Box Car | 18.50 |
| 9232 | R.I. Double Door Box Car | 18.50 |
| 9233 | So. Pacific Box Car | 18.50 |
| 9218 | New Haven Box Car | 29.95 |
| 7900 | Standard O S. Fe Tank Car | 51.95 |
| 7901 | Standard O Chevron Tank Car | 51.95 |

1991 Lionel Operating Cars

| | | |
|------|-------------------------------------|--------|
| 6622 | CSX Box Car w/E.T.D. | 26.95 |
| 6623 | Katy Double Door Box Car w/E.T.D. | 26.95 |
| 6638 | Lionelville Circus Animal Car | 25.95 |
| 6639 | B & O Box Car w/Steam Railsounds | 144.95 |
| 6640 | Rutland Box Car w/Diesel Railsounds | 144.95 |

| | | |
|-----------|-------------------------|--------|
| 9807 | Penn. Smoking Caboose | 59.95 |
| 6042-6047 | I.C. Passenger Cars (6) | 159.95 |

1991 Lionel Die-Cast Vehicles

| | | |
|------|---------------------------------------|-------|
| 2777 | Chevron Tractor and Tanker | 10.25 |
| 2778 | Conrail Tractor and Trailer | 10.25 |
| 2779 | Lionel Tractor and Grain Rig | 10.25 |
| 2783 | Lionel Tractor and Monon Trailer | 10.25 |
| 2785 | Lionel Tractor and Gravel Truck | 10.25 |
| 2786 | Lionelville Steel Tractor and Trailer | 10.25 |
| 2794 | Lionel Tractor | 5.95 |

1991 Lionel Operating Accessories

| | | |
|------|--------------------------------------|--------|
| 2708 | Street Lamps | 8.25 |
| 2709 | Banjo Signal | 31.95 |
| 2714 | Auto Crossing Gate | 25.95 |
| 2716 | Searchlight Tower | 26.95 |
| 2723 | Microwave Tower | 21.95 |
| 2727 | Auto Operating Semaphore | 25.95 |
| 2729 | Mail Pick-Up Set | 22.50 |
| 2735 | Diesel Horn Shed | 33.95 |
| 2737 | Whistling Freight Shed | 33.95 |
| 2742 | Goose Neck Street Lamps | 12.95 |
| 2748 | Ill. Station Platform | 18.50 |
| 2749 | Rotary Radar Antenna | 32.95 |
| 2760 | Auto Highway Flasher | 37.50 |
| 2761 | Animated Billboard | 30.95 |
| 2763 | Single Signal Bridge | 34.95 |
| 2771 | Roadside Diner | 44.95 |
| 2772 | Ill. Ext. bridge w/Piers | 30.95 |
| 2283 | Die Cast Bumpers (2) | 12.95 |
| 2309 | Mechanical Crossing Gate | 5.95 |
| 2311 | Mechanical Semaphore | 5.95 |
| 2762 | Ft. Station w/Train Control & Sounds | 110.95 |
| 2782 | Lift Bridge | 369.95 |
| 2791 | Animated Passenger Station | 80.95 |

1991 Lionel Building Kits

| | | |
|------|-----------------------|-------|
| 2707 | Billboards | 5.95 |
| 2730 | Girder Bridge | 7.25 |
| 2731 | Station Platform | 7.95 |
| 2732 | Coal Bag | 3.50 |
| 2740 | Log Package | 3.50 |
| 2744 | Rock Piers | 7.95 |
| 2745 | Barrel Pack | 3.50 |
| 2750 | Crane Kit | 7.95 |
| 2751 | Shovel Kit | 6.95 |
| 2754 | Graduated Trestle Set | 13.95 |
| 2755 | Elevated Trestle Set | 14.95 |
| 2181 | Telephone Poles | 4.50 |
| 2705 | Lumber Shed | 6.50 |
| 2706 | Barrel Loader Bldg. | 6.50 |
| 2710 | Engine House | 26.95 |
| 2711 | Water Tower | 13.95 |
| 2718 | Barrel Shed | 6.50 |
| 2726 | Grain Elevator | 26.95 |
| 2733 | Watchman Shanty | 6.50 |
| 2734 | Pass./Ft. Station | 17.95 |
| 2773 | Freight Platform | 11.95 |
| 2776 | Coaling Station | 26.95 |
| 2774 | Lumber Loader Kit | 6.50 |
| 2709 | Rico Station | 26.95 |
| 2716 | Short Ext. Bridge | 6.50 |

Service, Maintenance & Transformers

| | | |
|------|------------------------------|--------|
| 2752 | History of Lionel Video | 19.95 |
| 2756 | Making of Scale Hudson Video | 24.95 |
| 2743 | O Gauge Track Clips | 4.50 |
| 2780 | RS-1 Transformer | 149.95 |
| 2900 | Lockon | 1.50 |
| 2901 | 027 Track Clips | 4.50 |
| 2909 | Smoke Fluid | 3.00 |
| 2927 | Maintenance Kit | 6.95 |
| 2985 | Lionel Train Book | 9.95 |
| 4060 | AC/DC Transformer | 41.95 |

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| 2746 | Remote Uncoupling Track | 13.95 |
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| 5113 | 054 Curve | 1.45 |
| 5149 | Remote Uncoupling Track | 6.95 |
| 5021 | Manual Switch-Left | 12.95 |
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Lionel O Gauge Trackage

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| 675 | 2-6-2 w/6466W | Xct 249.00 |
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| 2353 | Santa Fe AA | Xct 595.00 |
| 773 | w/2046W 1964 Version | L/N 1295.00 |
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More Product Reviews from page 53



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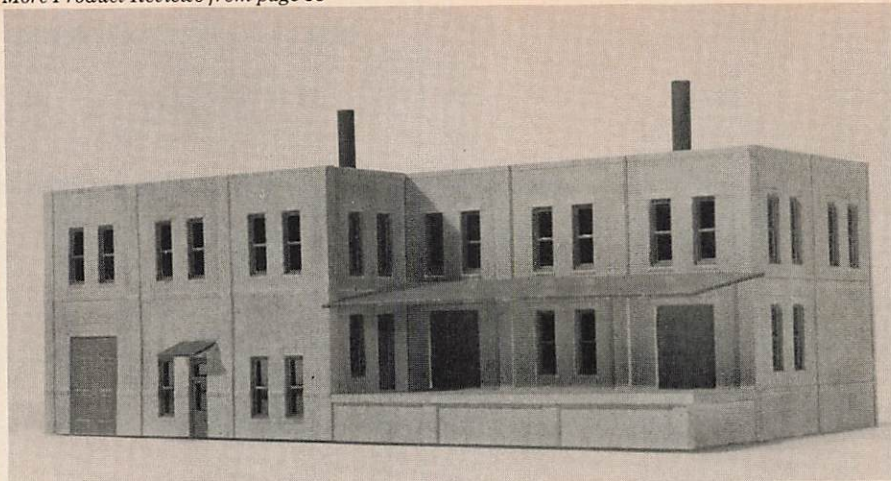
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LOTS OF N scale modelers were delighted when Design Preservation Models added N scale stores to their line a few years ago. Now it's time to get excited again because DPM has introduced two new industrial buildings: Gripp's Luggage Manufacturing Co. (discussed here) and a three-story factory with single-story annex called the

Goodnight Mattress Co. As far as materials and techniques go, the kits are quite similar, so my comments are applicable to either model.

Gripp's Luggage consists of finely molded plastic walls and loading dock roof, sheet styrene to make the roof, and clear sheet plastic for glazing the windows. The instructions are clear and well illustrated.

You could assemble this kit straight in about an hour, as everything fits together perfectly. The only difficult part is painting, and the only hard part about that is giving the numerous doors and windows a second color. An



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easier way is to paint the entire building one color — it will still look fine.

I do recommend that you depart from the instructions by painting the walls before assembly. It's a lot easier to brush-paint all those little cast-in window sills when the pieces are lying flat. I airbrushed my walls with Floquil Foundation, let them dry overnight, then hand-painted the windows and doors with Floquil Coach Green and a fine brush (no. 1).

This is a tedious and discouraging task, but stick with it and you'll emerge triumphant in the end. Paint these details as carefully as you can, accepting the fact that you'll make some (probably even many) boo-boos. Let the paint dry for 24 hours, then touch up with the wall color. Wait again before using a sharp blade in a hobby knife to scrape off any last glitches. Individual windows still may not look good, but weathering the building will help a lot.

I assembled the walls with Testor's Liquid Cement for Plastics, flowing it carefully into the joints from inside the building with an artist's brush. The dock was painted with Polly S Concrete, the roof panels (after installation) with Polly S Grimy Black.

For weathering I started by doing some light drybrushing here and there with Polly S Roof Brown and White; then I airbrushed the building lightly

and unevenly with Polly S Grimy Black, thinning it with denatured alcohol.

After glazing the windows I added a black construction-paper corner divider inside the building to kill that see-through look.

You could gussy up the structure with extra details. The dock roof needs something to support it, either posts or guy wires from above. You could add scuppers and downspouts, and bumpers made from tires would look good on the loading docks. One corner could be designated the office area and have windows with air conditioners and awnings.

The roof could use a water tower (or the base for one that's been removed), a doorway to stairs, and all sort of pipes, cyclones, blowers, and such, depending on what goes on inside the building.

As model railroad buildings go, this is a big one, measuring 4" x 9". It's nice to see some bigger (and thus more realistic) buildings in N scale, where we usually have a little more real estate available relative to that required for track.

This is an attractive factory or warehouse building that would look at home in just about any city in the country. It could be used on a layout set anytime from about 1910 to the present. (Earlier structures tended toward more elaborate brickwork and detailing.)

This is a good 'un. — J. K.

More Product Reviews on page 62

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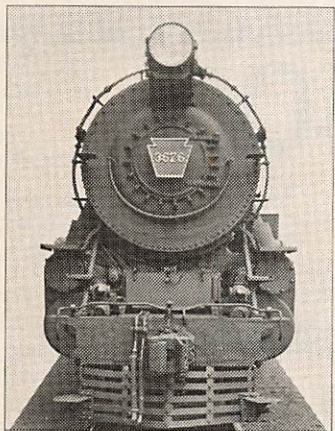
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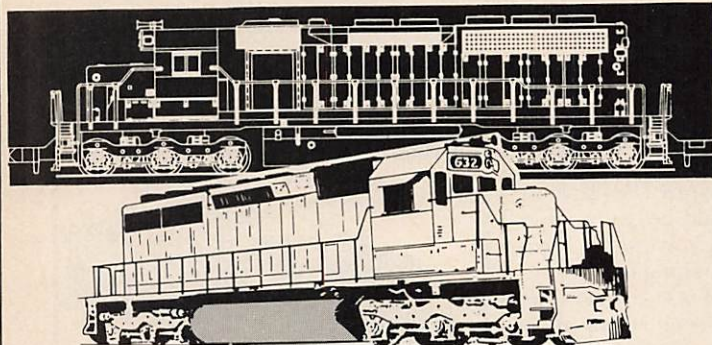
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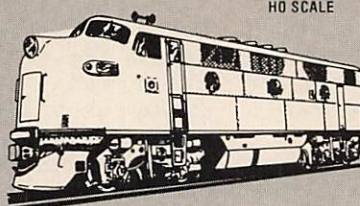
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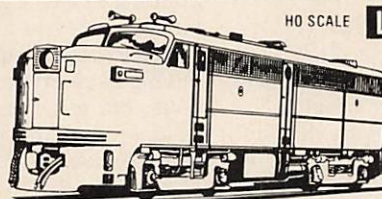
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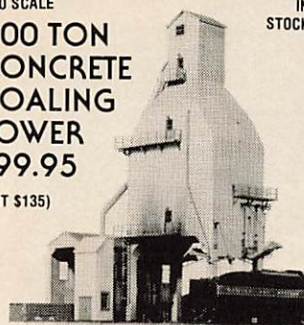
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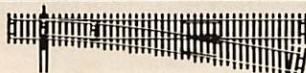
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| #6 | \$9.30 | \$9.20 | \$9.85 |
| #8 | \$10.65 | \$10.60 | \$10.65 |

HO CURVED TURNOUTS (LH or RH)

| | Code 70 | Code 83 | Code 100 |
|------|---------|---------|----------|
| #6 | \$18.40 | N/A | \$14.85 |
| #6.5 | N/A | \$16.45 | N/A |
| #7 | N/A | \$16.45 | N/A |
| #7.5 | N/A | \$16.45 | N/A |
| #8 | \$18.40 | \$16.45 | \$18.85 |

10 WYE TURNOUTS

| | Code 70 | Code 83 | Code 100 |
|-----------|---------|---------|----------|
| #2.5 or 3 | N/A | \$9.75 | N/A |
| #4 | \$9.30 | \$9.75 | \$9.85 |
| #6 | N/A | N/A | \$10.85 |

HO 3-WAY TURNOUTS

| | Code 70 | Code 83 | Code 100 |
|----|---------|---------|----------|
| #6 | \$20.60 | \$19.50 | \$20.60 |

HO DOUBLE SLIP TURNOUTS

| | Code 70 | Code 83 | Code 100 |
|----|---------|---------|----------|
| #4 | \$26.65 | N/A | \$26.85 |
| #6 | \$26.65 | \$28.45 | \$26.85 |
| #8 | N/A | \$31.90 | N/A |

HO SINGLE CROSSOVER (LH or RH)

| | Code 70 | Code 83 | Code 100 |
|----|---------|---------|----------|
| #6 | N/A | N/A | \$18.94 |

HO DOUBLE CROSSOVER

| | Code 70 | Code 83 | Code 100 |
|----|---------|---------|----------|
| #4 | N/A | N/A | \$29.65 |
| #6 | \$31.85 | \$28.90 | \$31.85 |

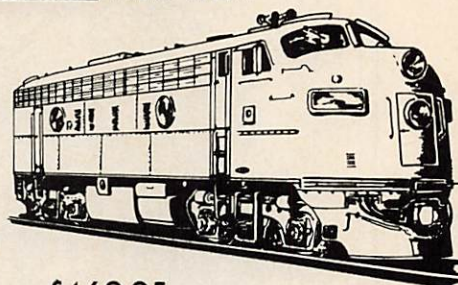
HO CROSSINGS: \$9.94 EA. (30, 45, 60, 90)
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N SCALE F-7

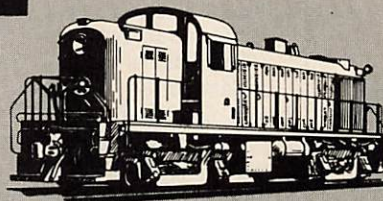
UNION PACIFIC
 PENNSYLVANIA
 CANADIAN NATIONAL
 SOUTHERN PACIFIC (GRAY/RED)
 SANTA FE (PASS)
 BURLINGTON NORTHERN
 UNDEC. A (Single Headlight)
 UNDEC. A (Dbl. Headlight)
 UNDECORATED B
 UNDEC B (w/Pass Equip.)



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ALCO RS-3

CANADIAN PACIFIC (MAROON & GRAY)
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 NEW HAVEN (GREEN & ORANGE)
 ONTARIO NORTHLAND (GREEN & YELLOW)
 ROCK ISLAND (RED & BLACK)
 UNDECORATED

RSD-4/5

SIMILAR TO RS-3 BUT w/6 WHEEL TRUCKS.
 PENNSYLVANIA (BRUNSWICK GREEN)
 SANTA FE (BLUE & YELLOW)
 SOUTHERN PACIFIC (BLACK & ORANGE)
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RS-11

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 SEABOARD COAST LINE (BLACK & YELLOW)
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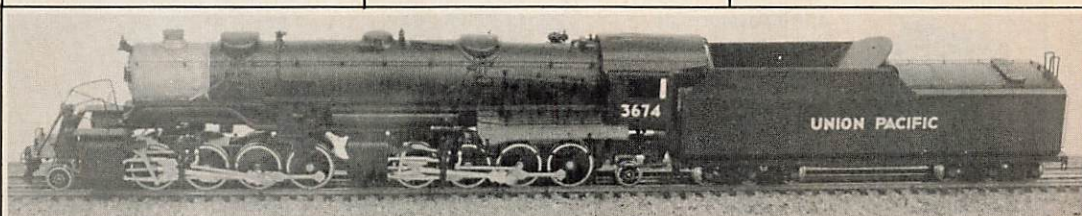


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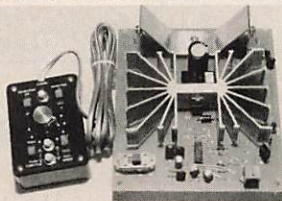
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- Main power board & small hand-held control.
- Requires 12 to 18 volts AC power source.

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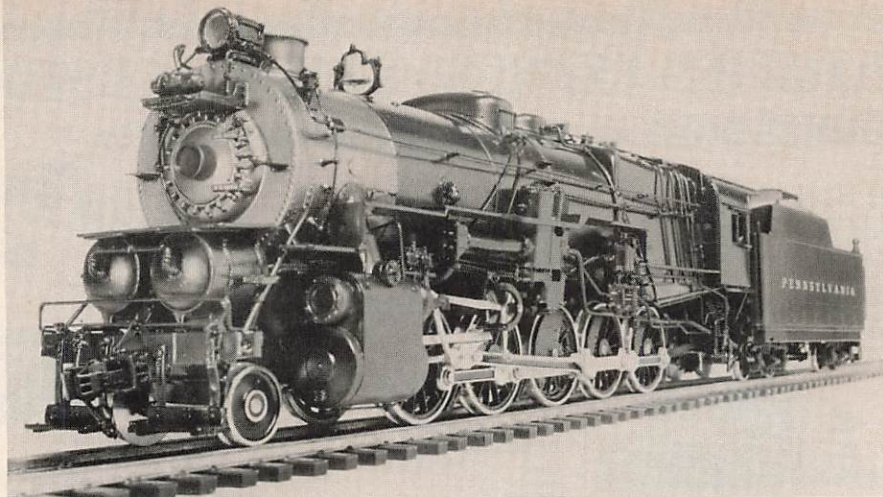
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S SCALE PRR 2-10-0

Imported brass class I1 Decapod scale version unpainted, \$975; factory-painted with directional lights, \$1,075; hi-rail version unpainted \$1,020; and factory-painted with directional lights, \$1,120.

Omnicon Scale Models

50 S. Lively Blvd.

Elk Grove Village, IL 60007

DECAPODS were relatively rare on most railroads, yet the Pennsylvania RR found that the 2-10-0 was ideally suited to its rugged, heavy-tonnage operating conditions. According to Alvin Stauffer's book, *Pennsy Power*, the class I1 Decapods were designed by PRR mechanical engineers Alfred W. Gibbs and Axel S. Vogt in 1916. Typical PRR standard practices were followed throughout, and one engine was built at the Juniata Shops in 1916 for road-testing.

Once testing was done, Juniata was given an order for 122 of the I1 locomotives. These massive (386,000-pound) new engines quickly proved themselves on the mountainous Central Region (north and west of Altoona and Williamsport, Pa., to central Ohio). In

1922, a second batch of 475 duplicates was ordered from the Baldwin Locomotive Works to produce a total fleet of 598 2-10-0 locomotives.

The I1s quickly became Pennsy's standard heavy freight locomotive, and they continued in that role for the next 40 years. In the mountains, double-heading was common, with more helpers spaced through the heavy trains and on the rear end. A PRR veteran, visiting with me at Horse Shoe Curve, explained, "We just kept adding I1s until the train made it over the mountain!"

Omnicon's model of the I1 is based on one of the Baldwin engines equipped with a Worthington feedwater heater on the fireman's side. Two versions of the same engine have been built: one with scale wheels, the other with larger flanges for hi-rail operation. Our samples included a factory-painted scale engine and an unpainted hi-rail unit.

These models are made by Samhongsu in Korea. Most of each engine is made of etched and formed sheet brass, with lost-wax detail castings and wire piping.

Review continues on page 66



Don Wood photographed no. 3703, one of the PRR's class I1 Decapods, at Enola, Pa., in 1954.



HO STEAM

| | |
|---|------------|
| ARM PRR 2-10-4 J-1 Long Pipes UP OB M..... | \$295.00 |
| PRR 2-10-4 J1A Short Pipes UP OB F..... | 235.00 |
| SF 4-6-2 3400 UP OB G..... | 175.00 |
| SF 4-6-2 3200 UP OB G..... | 195.00 |
| AKANE B&O EM-1 2-8-4 OP OB F..... | 395.00 |
| B&O EM-1 2-8-4 OP OB F..... | 295.00 |
| B&O 2-8-2 OP OB G..... | 250.00 |
| B&O Q-4b 2-8-2 OP OB F..... | 165.00 |
| USRA 0-6-0 OP NOB F..... | 135.00 |
| USRA 2-10-2 heavy UP OB G..... | 225.00 |
| USRA 4-6-2 OP OB G..... | 195.00 |
| USRA 4-8-2 Light OP OB G..... | 225.00 |
| USRA 4-8-2 heavy OP OB G..... | 225.00 |
| ALCO NYC K3Q 4-6-2 UP OB G..... | 195.00 |
| PRR B-6a 0-6-0 CP OB G..... | 225.00 |
| SP MK-6 2-8-2 OP OB G..... | 295.00 |
| SP MK-6 2-8-2 UP OB M..... | 275.00 |
| SP MT-2 4-8-2 UP OB G..... | 250.00 |
| USRA 0-6-0 OP OB G..... | 165.00 |
| BAL SF 0-6-0 OP OB G..... | 175.00 |
| SF 4-4-2 OP OB G..... | 225.00 |
| SP MK-5 2-8-2 OP OB G..... | 275.00 |
| SP S-12 0-6-0 OP NOB G..... | 225.00 |
| SP S Cl. 0-6-0 1970 Run UP OB M..... | 200.00 |
| C&R B&O J-1 4-4-4 OP OB G..... | 290.00 |
| C&O J-3 4-8-4 UP OB G..... | 275.00 |
| C&O L-2 4-6-4 UP OB F..... | 225.00 |
| D&RGW 4-8-2 UP OB M..... | 275.00 |
| PRR K-4s 4-6-2 #3770 UP OB M..... | 359.00 |
| U.P. 4-6-2 UP OB G..... | 375.00 |
| EMP N.H. 800 Cl. 4-6-0 UP OB G..... | 195.00 |
| GEM B&O C-16a 0-4-0 OP OB G..... | 125.00 |
| B&O P-7 4-6-2 OP OB F..... | 195.00 |
| PRR A5s 0-4-0 OP OB G..... | 165.00 |
| PRR D-16sb 4-4-0 UP OB G..... | 185.00 |
| PRR F-3 2-6-0 UP OB G..... | 165.00 |
| PRR H-10s UP OB G..... | 175.00 |
| PRR M-1b 4-8-2 OP OB F..... | 235.00 |
| PRR N-1s 2-10-2 OP OB G..... | 225.00 |
| USRA 2-8-2 OP OB F..... | 365.00 |
| UP 4-8-8-4 Big Boy UP OB M (5 of 32 made by Tagary) Bid | |
| HAL R.I. R-67 4-8-4 OP OB G..... | 495.00 |
| SF 0-6-0 OP NOB G..... | 165.00 |
| SF 2100 CL. 0-6-0 UP OB G..... | 195.00 |
| SF 2-8-0 UP OB G..... | 250.00 |
| SF 2507 CL. 2-8-0 UP OB M..... | 225.00 |
| T&P 0-6-0 UP OB G..... | 240.00 |
| KEY B&O 4-6-2 OP OB F..... | 250.00 |
| B&O P-7E 4-6-2 FP #5314 OB M..... | 450.00 |
| D&RGW C-48 2-8-0 FP (Pass.) OB M..... | 500.00 |
| PRR 1-1sa 2-10-0 UP OB G..... | 650.00 |
| PRR K4s 4-6-2 Stream. UP OB N..... | 475.00 |
| UP 4-8-8-4 late FP OB N..... | 607.00 |
| LMB B&O S-1 2-10-2 OP OB F..... | 225.00 |
| B&O S-1 2-10-2 UP OB G..... | 275.00 |
| Forney 2-4-4T UP NOB G..... | 125.00 |
| NYC J-3a 4-6-4 Stream UP OB F..... | 225.00 |
| T&P 2-10-4 UP OB G..... | 275.00 |
| MXG D&RGW L-105 UP NOB G..... | 400.00 |
| SF 4-6-2 OP NOB G..... | 175.00 |
| NER B&M J-1 4-4-2 UP OB N..... | 375.00 |
| Rutland K-1 4-6-2 UP OB N..... | 520.00 |
| NPP C&NW E-4 4-6-4 UP OB G..... | 250.00 |
| CB&Q K-2 4-6-0 UP OB M..... | 195.00 |
| DL&W Q4 Orig. or Mod. 4-8-4 UP OB M..... | 235.00 ea. |
| GTW 4-8-4 UP OB G..... | 275.00 |
| ORI B&O 4-6-2 UP OB M..... | 379.00 |
| B&O 4-6-2 Pld UP OB G..... | 350.00 |
| CB&Q G-8 0-6-0 UP OB N..... | 275.00 |
| GN R-1 open cab FP Black OB M..... | 995.00 |
| SPLO 2-10-2T FP OB N..... | 175.00 |
| U.P. S-6 0-6-0 UP OB G..... | 293.00 |
| USRA 0-8-0 (CB&Q ver) or standard UP OB N..... | 243.00 |
| USRA 4-6-2 FP NOB G..... | 149.00 |
| USRA 2-8-8-2 var. roads & vers. FP OB N..... | 250.00 ea. |
| OVL B&M B-15b w/pilot UP OB N..... | 457.00 |
| B&M B-15b w/switch pilot UP OB N..... | 426.00 |
| B&O P-ld 4-6-2 (altered) OP OB F..... | 200.00 |
| CB&Q 0-4 Coal or oil 2-8-2 UP OB G..... | 325.00 ea. |
| CB&Q 0-5 4-8-4 UP OB M..... | 375.00 |
| C.G. K 4-8-4 UP OB M..... | 325.00 |
| CNJ B-3 0-6-0 UP OB N..... | 357.00 |
| C&NW E-2a 4-6-2 UP OB N..... | 470.00 |
| DL&W P-1 4-8-2 UP OB N..... | 275.00 |
| Ma & Pa #41 & #42 UP OB N..... | 438.00 ea. |
| Monon K-5 1940 ver. UP OB N..... | 250.00 |
| NYC H-7e w/6 axle tender FP OB N..... | 608.00 |
| NYC H-7e w/lesco FP OB N..... | 620.00 |
| R.I. P-42 4-6-2 UP OB N..... | 250.00 |
| PFM CPR G-3 4-6-2 UP OB G..... | 225.00 |
| CPR T-1c 2-10-4 UP OB G..... | 295.00 |
| CPR T-1c 2-10-4 UP OB M..... | 350.00 |
| C.V. 2-10-4 OP OB G..... | 525.00 |
| GN H5 UP OB G..... | 250.00 |
| Harrington Shay UP OB M..... | 495.00 |

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| PRR K-4 4-6-2 w/solid pilot OP OB F..... | 225.00 |
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| SF 2-8-0 OP OB F..... | 175.00 |
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| NYC F-12a Baker UP OB M..... | 434.00 |
| SUN C&O T-1 2-10-4 UP OB M..... | 225.00 |
| Frisco 2-10-0 FP OB N..... | 244.00 |
| GN 2-6-0 UP OB G..... | 225.00 |
| GN 0-1 2-8-2 UP OB G..... | 250.00 |
| GN 0-8 open cab OP OB G..... | 250.00 |
| GN Q-2 2-10-2 UP OB G..... | 295.00 |
| GN Q-2 2-10-2 CP OB M..... | 375.00 |
| PRR H-10 2-8-0 UP OB M..... | 195.00 |
| SF 0-8-0 OP OB G..... | 175.00 |
| SF 4-8-2 3700 Cl. OP OB G..... | 265.00 |
| S.P. AC7 & 12 4-8-8-2 UP OB N..... | 462.00 ea. |
| S.P. AC7 & 12 4-8-8-2 FP OB N..... | 535.00 ea. |
| S.P. GS 2,3,4,5,6 UP OB N..... | 219.00 ea. |
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| GN F-8 2-8-0 FP OB G..... | 375.00 |
| GN M-2 2-6-8-0 OP OB F..... | 695.00 |
| GN S-1 4-8-4 FP #2552 OB G..... | 225.00 |
| GN S-1 4-8-4 FP OB G..... | 195.00 |
| GN S-2 4-8-4 FP OB G..... | 400.00 |
| USRA 0-8-0 UP NOB F..... | 125.00 |
| WSM B&O 4-4-4-4 Geo. Emerson OP OB F..... | 275.00 |
| GN N-3 2-8-8-0 CP OB G..... | 800.00 |
| GN S-2 4-8-4 OP OB G..... | 325.00 |
| SF 3010 Cl. 2-10-2 UP OB G..... | 325.00 |
| SP P-1 4-6-2 UP OB M..... | 225.00 |
| Wabash J-1 4-6-2 CP OB M..... | 195.00 |

HO DIESELS AND ELECTRICS

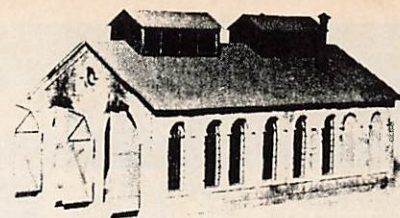
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|---|--------|
| ALCO Alco RS-1 (SAM) UP OB M..... | 165.00 |
| Alco S-4 S.P. ver. UP OB M..... | 165.00 |
| EMD SD-40 OP OB G..... | 85.00 |
| EMD SD-40L OP OB G..... | 85.00 |
| N.H. E-33 OP OB G..... | 199.00 |
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| EMD E-7A PH II UP OB N..... | 249.00 |
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| N.H. EY-2 UP OB N..... | 185.00 |
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| NYC S-3 UP OB N..... | 298.00 |
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| PRR P5b #4702 UP OB N..... | 342.00 |
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| B&M XM-1 Boxcar FP OB N..... | 140.00 |
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| CB&Q GA Hopper CP OB N..... | 183.00 |
| I.C. Ext. Cab 4 ver. CP OB N..... | 146.00 ea. |
| Richmond Conv. Hopper CP OB N..... | 153.00 |

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| | |
|---|----------|
| OVL Mil. Road ES-2 Electric UP OB M..... | 550.00 |
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| WM H-9 2-8-0 Proto '48 UP OB M..... | 995.00 |
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| GN S-2 4-8-4 CP OB M..... | 1,300.00 |



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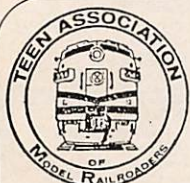
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**WOODLAND
SCENICS**

More Product Reviews from page 62



Mechanically, the I1 models have a large DC can motor, which is connected to the middle driver with a free-wheeling gearbox. This type of gearbox allows the wheels to turn, if the engine is pushed, without damaging anything. All the drivers are sprung, and operation is quite smooth with minimal noise. A sound cam is mounted on the second axle, and the tender floor is drilled for speaker installation. All the wheels on the scale engine match the National Association of S Gaugers standards.

Performance

Minimum, midrange, and maximum speeds on filtered direct current, straight track:

| Scale mph | Load | Volts | Amperes |
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Weight of engine and tender: 38 ounces.
Minimum radius: 36". Pull: 6 ounces.

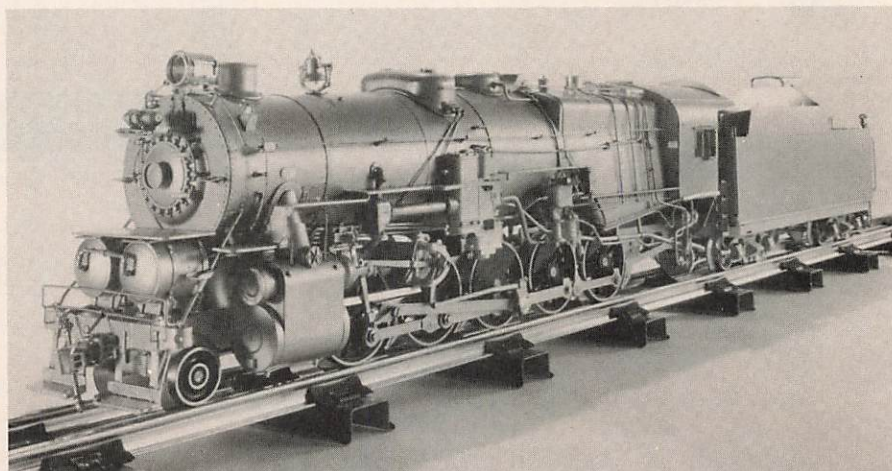
MR's sample was an excellent-running model. It started smoothly and ran quietly throughout its speed range. Its drawbar pull exceeded the range of our test equipment; the importer reports that one of the scale Decapods pulled a mixed 50-car train up a 2 percent grade on the S-Team club layout.

These models were designed with operation in mind. Both the engine and tender are equipped with pads and tapped holes, so Kadee S/On3 couplers can be installed with ease.



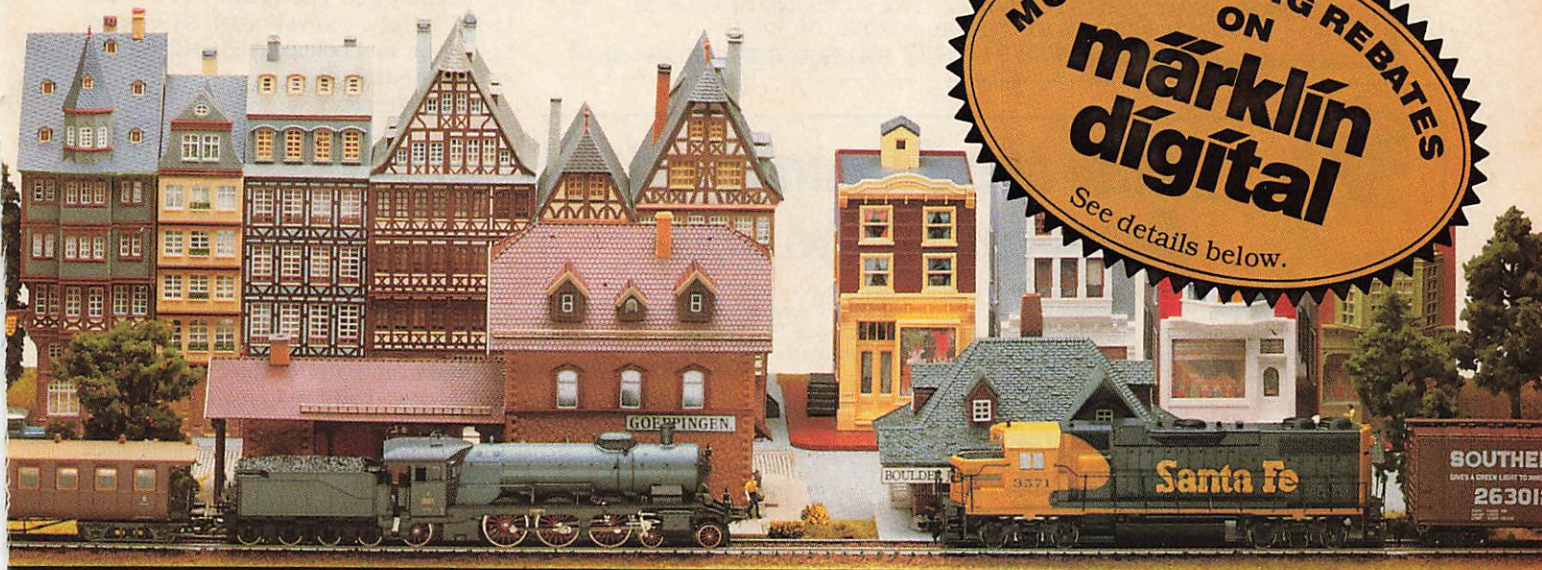
Because of the costs and time involved in producing S scale locomotives, Omnicon sells most of their products under a prepayment buying plan. The production run is sized to fill these paid orders, which is why only a few models are made for the general market. Future plans include a New York Central class L-3a/L-4a 4-8-2 Mohawk in early 1992 and a Chesapeake & Ohio T-1/PRR J1 2-10-4 coming in 1993.

Both versions of the I1 2-10-0 are superb models that Pennsy fans will surely enjoy. — *Jim Hediger*



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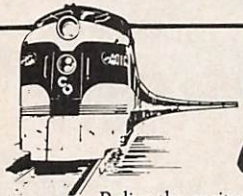
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HO MARKER LIGHTS

Ready-to-install Adlake marker light kits nos. H-807 (red and green lenses) and H-809 (red and yellow lenses), \$9.95 each; battery power hookup kit no. 812, \$2.95.

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MARKERS are lights that were used to indicate the end of a train for most of the 20th century. Originally, markers were kerosene lanterns hung from brackets mounted at the rear corners of locomotives, passenger cars, and cabooses. In the late 1970s and early '80s, the kerosene markers gave way to electric flashers and eventually to the flashing rear-end devices (FREDs) in use today.

Veteran railroaders were extremely aware of markers because their safety depended upon them. The operating rule book defines a train as any locomotive or self-powered car, with or without cars, *displaying markers*. If a meet takes place and the passing train has no markers, the waiting train cannot proceed. The lack of markers shows that the opposing train has either broken in two or left the rear end of the train somewhere... quite possibly out on the main line!

Tomar's set of markers is based on the full-size lamps made by Adlake. They come in two kits that have different lens combinations. Set H-807 has the most common arrangement, with a red lens facing to the rear and green lenses in the front and sides. Set H-809 also has the red lens, but the front and side lenses are yellow to match an alternate prototype combination. Tomar makes similar marker sets in O and G scales.

The kit contains a pair of lost-wax brass markers that come painted and with the lenses installed, 1.5-volt lamps (which also come installed), and a small instruction sheet that explains the procedure. It's easy to install the parts, and the project took only about an hour to complete.

Installing the markers was easy as the lamp wires come out through the mounting pegs. They can be applied to almost any of the usual "rear" cars, including observation or sleeping cars and cabooses. All it took was drilling a no. 44 hole through the carbody at each of the lamp locations. Then, as specified in the instructions, I reamed the holes with a no. 42 drill bit to get a good fit. I slid the



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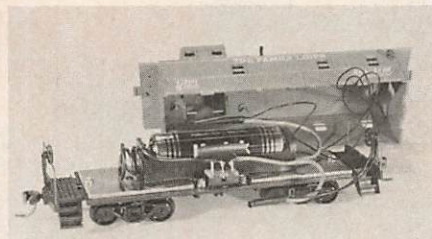
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wires through the hole, added a tiny drop of cyanoacrylate adhesive (CA), and pressed each marker into position. The only trick was making sure the red lenses faced the rear.

I used a Tomar no. 812 battery power hookup kit to supply the markers I mounted on an Athearn caboose. This kit comes with a small slide switch, a molded plastic AA battery holder, and some hookup wire.



Next, I mounted the slide switch so that its control lever extends down through the plastic floor and opposite Athearn's toolbox. I made a rectangular hole in this location $\frac{3}{16}$ " wide and $\frac{5}{16}$ " long by drilling a couple of holes within the area and filing the opening to size. By positioning and holding the switch in the opening, I could mark the location of its mounting bolts at either end. Then I drilled no. 47 holes through the floor and mounted the switch with two 1-72 machine screws and nuts.

The next step was to notch Athearn's steel weight so it fit around the power switch mounted on the plastic floor. Next, I positioned the battery holder and marked the locations for its mounting screws. I drilled and tapped these holes for 2-56 screws, mounted the battery holder on the weight, and cut off the excess length of the mounting screws flush with the underside of the weight. Then I finished assembling the caboose floor and mounted the weight with the Athearn screws.

Both of the lamps are wired in parallel with the battery. One side of the circuit passes through the control switch so I can turn the markers on or off. I made these connections with the wire supplied in the kits; some soldering was required.

With the caboose fully assembled, the switch was hidden in the shadows underneath the car. During daylight hours, the markers were usually left dark, even though they were still in the brackets. At dusk, the markers may be turned on, producing a nice-looking glow from each of the lenses. They're battery powered, so that track voltage doesn't affect them.

The finished markers add a neat bit of realism to any model caboose or passenger car. The lenses even focus the light down the track just like their prototypes. — J. D. H.

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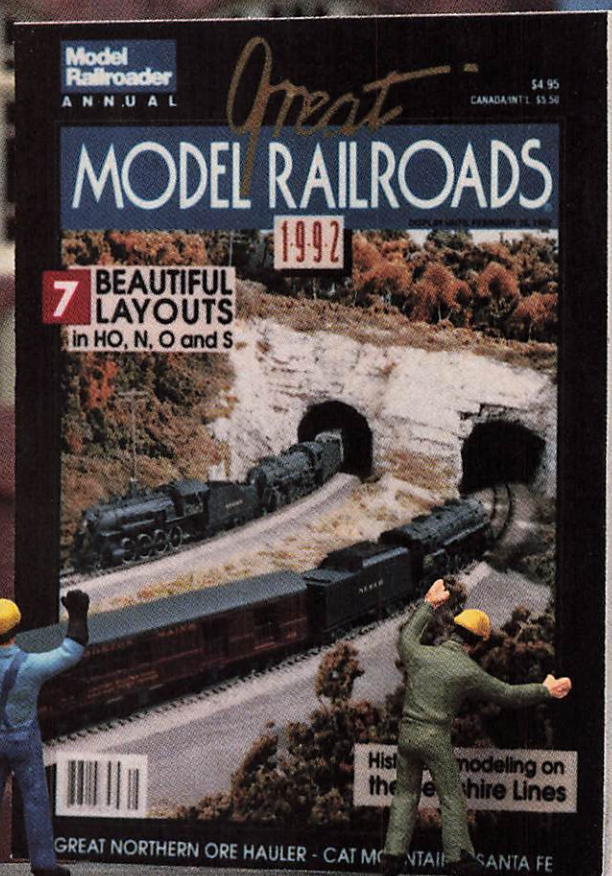
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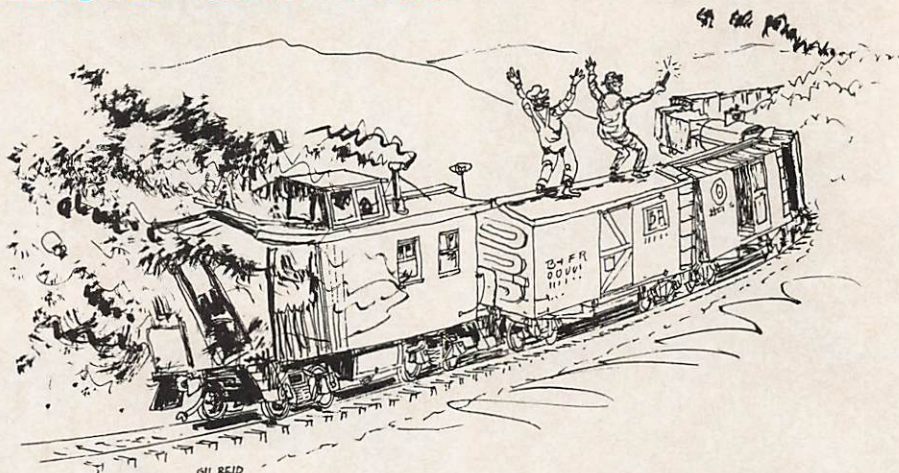
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Tips 'n tales from the cab



Looking back on how trains set fire to themselves

BY VERNON HART

RAILROADS have kept fire departments busy for many years, yet modelers seldom put fire trucks to work on their layouts. Over my years as an engineer, my trains certainly provided their share of problems for the local fire fighters.

HOTBOXES

Modern roller-bearing trucks are a great improvement over the older friction-bearing style. Yet most of us model the older era, when rolling stock usually rode on Bettendorf, archbar, or Andrews friction-bearing trucks. This is confirmed by the little door that hinges upward on both sides of the truck at each end of the axles.

These doors provide access to the journal boxes, which hold the bearings and carry the necessary lubricating oil. Inside, the journal boxes are filled with a fiber material called "waste," which lubricates the axle bearing surfaces through a wicking action.

When something goes wrong with a friction bearing it starts to overheat and eventually gets hot enough to ignite the oily waste. The blaze alerts the train crew to the problem, right? Well almost right, but they have to see it first! The problem is one of visibility as it's impossible to see about two-thirds of a normal train in the hilly and curvy territory most of us like to model.

Now folks, let me tell you, when that stuff keeps burning unnoticed, some bad news is on the way. As the lubrication is consumed, the axle gets even hotter. More than likely, the axle will break and cause a train wreck. Of

course, if you're really lucky, the blaze sets the carbody on fire and now, by golly, we have a signal that everyone can see! Let's stop the train with that car setting somewhere that is accessible to the local fire department.

SPARKS FROM BRAKES

Braking can also provide work for the fire departments. Prior to the fuel crunch of the 1970s, most railroads used a train-handling technique known as "stretch braking." Simply put, the engine was run wide open all the time and the train speed was controlled with the brakes. Easing off the throttle was done only as a last resort.

This holdover from steam engine days was seen as a smoother way to control slack action in the train. It consumed vast quantities of fuel and definitely kept the brake shoe companies in the black. It also provided jobs for legions of workers who installed new brake shoes, serviced overworked brake systems, and replaced wheels with huge flat spots (from sliding) or bad contours (from just being slowly ground away).

The sparks flying from a properly working brake seldom cause concern. However, the fire flying from a stuck brake is quite a different matter. At night it resembles an old-fashioned pinwheel on the Fourth of July! When that happens around dry grass, it can set a continuous fire for quite a distance.

Such right-of-way fires are relatively common and are seldom modeled. Depending upon the location, this might include scorched fields, burned timber, and even an occasional lost barn or house to be realistic.

To offset this problem, many railroads

tried to keep their rights-of-way burned off. When is the last time you saw that modeled? Okay, so it's ugly. How about a scene with a crew putting out a small fire along the right-of-way? A similar scene could be done with a crew starting to burn off the right-of-way.

Fortunately, the problem is greatly reduced today. Vastly improved dynamic brakes as well as improved train brakes have nearly relegated these events to the past. Most speed control is now accomplished by the engineer's handling of the locomotive's throttle and dynamic braking.

BURNING LOCOMOTIVES

On occasion, for reasons that should never occur, a diesel locomotive will catch fire. Yes, we have fire extinguishers aboard the engines, but fires can really get out of control. Hopefully, it's not the lead engine! Many fire departments have been called to the rescue. Just imagine the fire chief's reaction to this call:

"Chief, this is the Ohio River & Wabash's agent. I have a fire!"

"What's the location?"

"It's not here yet, but it'll be at the Elm St. crossing in a minute or two!"

If you wish to model this problem, a John Allen-style staged scene would work best, with a locomotive stopped on a public crossing and a fire truck or two in attendance. Naturally, a large crowd would gather to see what's happening.

A burned locomotive sitting near the diesel shop could tell a similar story. Such problems are almost always confined to the middle part of the locomotive, around the engine compartment, with visible damage on the upper two-thirds of the body.

Grade crossing accidents are an engineer's worst nightmare. No matter how it happens, the automobile or truck always loses. With all the weight involved, there's nothing an engineer can do that will affect the outcome. Most vehicular collisions cause only minor damage to a locomotive, but occasionally an engine may be seen with the cab portion burned out. Such extensive damage is generally the result of a fatal crash between the train and a gasoline tank truck.

On a happier note, railroads also use local fire departments as a source of water for fan trips. If your railroad has already taken down its water tanks and stand pipes, a small scene could easily be developed around preparations for watering a steam fan trip. You'll need a couple of pumpers near a crossing with hose lines stretched down the street so they can draw water from different fire mains. ☐

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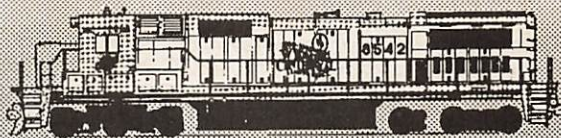
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APRIL 1979

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AUGUST 1979

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AUGUST 1991

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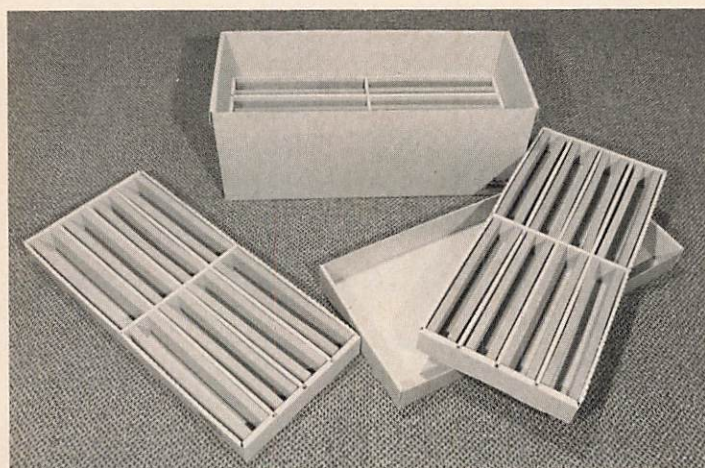
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Gn3 freight cars and motorized handcar: Bachmann is continuing to add items to its Big Hauler line of Gn3 (1:22.5) ready-to-run equipment. Wood stockcars are available lettered for the Denver & Rio Grande Western, Missouri-Kansas-Texas, Pennsylvania RR, or the Union Pacific. Three-bay steel hopper cars are lettered for the East Broad Top, Peabody Coal Co., PRR, or the UP. The Gandy Dancer, a self-propelled handcar, is also available. They are made by Bachmann Industries Inc., 1400 E. Erie Ave., Philadelphia, PA 19124. Hoppers sell for \$40, stockcars for \$35, and the Gandy Dancer for \$69.95.

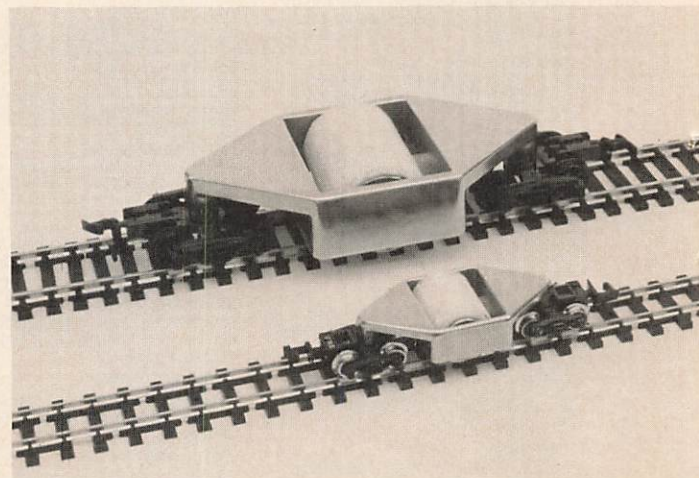
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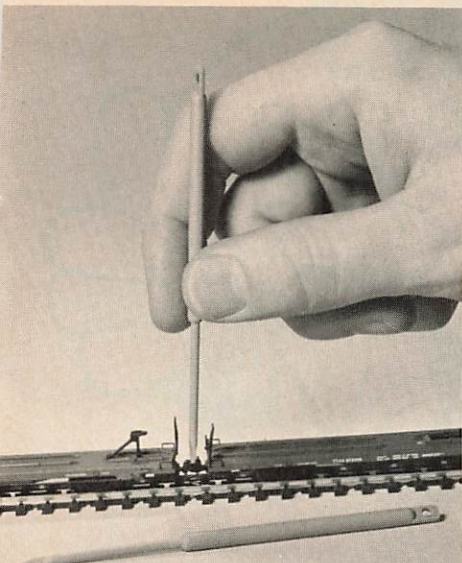
New products of interest



HO scale storage box: Anyone who must store or transport locomotives and rolling stock will find these storage boxes quite handy. They're made of heavy corrugated cardboard and measure 29 $\frac{1}{4}$ " long, 13 $\frac{1}{4}$ " wide, and 11" tall. Each box contains four heavy cardboard trays, which are divided into eight compartments. These compartments, which each measure 13 $\frac{1}{4}$ " long (about 96 scale feet), 2 $\frac{5}{8}$ " wide, and 2 $\frac{1}{2}$ " deep, include two pieces of $\frac{5}{8}$ "-thick foam for cushioning. These durable boxes are made by the Plain-O Box Co., 2400C Ave. K, Plano, TX 75074, and sell for \$27.95 apiece. N and O scale versions are being planned.

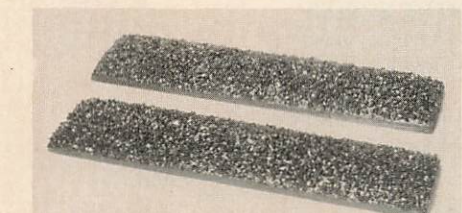
HO and N scale track-cleaning cars: The cleaning action of these cars is provided by a heavy brass roller, which is covered with a soft cloth material soaked with track-cleaning fluid. The roller is then guided along the track by the car's heavy cast-metal frame. The roller and car aren't connected — the roller sits loosely in an opening in the frame. When the cloth becomes dirty, simply remove it and put in more cloth (additional material is supplied with each car). The cars are made by Centerline Products, 6N322 Keeney Rd., Keeneyville, IL 60172. The HO car (item no. HO-1) sells for \$37.25, while the N scale version (no. N-1) is \$26.75.





N scale uncoupling tool: Modelers who use Micro-Trains couplers will welcome this hand uncoupling tool from Rix Products. To use the Rix Pick, simply insert it between the two couplers and twist. It is made by Rix Products, 7707 Old Orchard Trail, Evansville, IN 47712. A pack of two sells for \$2.49.

Multiple scales signs: Signs of various types can be found almost everywhere in real life. These signs from Russian River will help add finishing touches to buildings and scenes. This photo shows just a few of the more than 200 full-color signs included on this 8 1/2" x 11" sheet. The signs range in size from 1/8" in diameter to 1 1/4" square, so modelers in Z scale all the way up to G can use them. They're made by Russian River Railroad Co., 3515 Palomino Dr., Arlington, TX 76017. The price: \$5.95.



HO scale coal loads: These coal loads for hopper cars are individually made, giving each one a different look. They use wood bases, with scale coal bonded in place on top of them. Loads are available to fit Athearn 34- and 40-foot cars, Model Die Casting 40-foot rib-side and 50-foot Ortner Rapid Discharge cars, and Con-Cor and Life-Like 45-foot cars. The loads are produced by Wilson Harrell, 936 Moyer Rd., Newport News, VA 23602. Each pack of two loads goes for \$4.25, plus \$3 shipping per order.

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| Alco Models EMD/UP DD-35A, un/pdt, like new in the box | 350.00 |
| Alco Models F-M H-20-44 U.P. Version, like new in the box | 195.00 |
| Alco Models U.P. SW-70 Conversion, like new in the box | 195.00 |
| Alco Models PRR DL-600B PRR Ver. w/ Ant. new, w/new gears | 250.00 |
| Alco Models RSD-17 Canadian Ver. new, un/pdt, w/new gears | 250.00 |
| Alco Models Virginian 6000 hp A+A Electric, un/pdt, new | 750.00 |
| Alco Models EMD GP-40 Low Hood w/db, as new in box | 150.00 |
| Alco Models EMD SD-40 Low Hood w/db, as new in box | 150.00 |
| Alco Models Alco C-425, cust/pdt & detailed for SP&S | 195.00 |
| Alco Models EMD GP-40 Low Hood w/o DB cust/pdt SP&S | 175.00 |
| Atlas new parts Catalog | Just out 5.00 |
| Atlas FP-7's SRR, L&N, SDO, CP, NP, UP un/dec. 3 types Ea. | 87.95 |
| Atlas GP-7's Amtrak, BAR, C&NW, Erie, Frisco, IC, L&N, NYC & SF | Ea. 79.95 |
| NOTE: Also carry Alloy Forms, Athearn, Atlas, Bev-Bel, Bethlehem Car Works, Cal-Scale, Chooch, Circuitron, City Classics, CM Shops, Detail Associates, Details West, Dremel, Smokey Valley, Funaro & Camerlengo, Heki, Kadec, Korber, Kibri, LGB, Lionel, Mantua, Marklin, Micro Eng., Peeco & REA, Green Frog Video Tapes, Herron Rail Services, Interurbans, JMM, Kalmbach, Pentrex, Video Rails & WB Video. | |
| Balboa U.P. Veranda Gas Turbine 1/pdt, like new | 495.00 |
| Balboa SP/T&NO MKS-2-8-2, un/pdt, some tarnish | 395.00 |
| Car Works Cinn & Lake Erie Red Devils, #110-123 last one | 235.00 |
| C&BT Shops. We will have all new kits as they come out. | |
| Custom Brass C&O L-1 Streamlined Hudson, new, un/pdt | 450.00 |
| Custom Brass PRR K-4s #5399, un/pdt | Ea. 345.00 |
| Custom Brass EMD GP-30, un/pdt, as new | 195.00 |
| GHB AMTRAK MARC, NJT, SEPTA, AEM-7 | due soon |
| Innovative Model Works. Have all of their kits in stock. | |
| Kato HO SD40, BN, CHESSIE, C&NW, SP, UP | Ea. 87.95 |
| Key PRR GG-1/pdt, Single Stripe Brunswick Green, Mint | 395.00 |
| Key D&RW L-96 2-8-2, un/pdt, as new | 695.00 |
| Key NYC H-8-P-2-2, 1/pdt, w/s-w/wh. trucks, Long Tender #1320 | 699.95 |
| Key NYC H-8-P-2-2, 1/pdt, w/s-w/wh. trucks, Short Tender #1583 | 699.95 |
| Key B&A H-5-2-8-2, 1/pdt, w/s-w/wh. trucks, Short #1216 or 1218 | 699.95 |
| Key Alco PA A-A Set PA17-2 1/pdt Erie Lackawanna | 625.00 |
| MTS Manhattan Elevated (IRT) 2-Car Set | 375.00 |
| MTS Manhattan Elevated Chicago & South Side Rapid Transit | |
| Elevated Car, unpowdered, un/pdt | 145.00 |
| MTS C&ME 200-202 Series "Jewett" Combine | 240.00 |
| MTS C&NS&M 300-302 Series "Jewett" Coach | 240.00 |
| MTS Boston Type 5 Streetcar, 1929 Modification | 219.00 |
| MTS 80 Series Interurban | 265.00 |
| MTS Brooklyn Transit South Brooklyn Railway | |
| Double Door Freight Motor | 255.00 |
| MTS BRL Double Truck Snowplow | 312.95 |
| MTS PRT/PTC "Nearside" Trolley 6000-7499 Series | Ea. 255.00 |
| NJ Int Milwaukee Electric Duplex Interurban 1/pdt | 473.95 |
| NJ Int PRR D-70CR/DR 1939 Diner-Kitchen Dorn 2 Car Set | 269.50 |
| NJ Int PRR D-70CR/DR 1939 Diner-Kit, Lunch Counter 2 Car Set | 269.50 |
| NJ Int PRR D-70CR/DR 1943 Diner-Kit, Lunch Counter 2 Car Set | 269.50 |
| NJ Int PRRS: Wood MU Combine, 1/pdt & lettered | 294.50 |
| NJ Int PRRS: Wood MU Baggage Express Car | Coming |
| NJ Int PRRS: Wood MU Mail Express Car | Coming |
| NJ Int PRRS: 3-car MU set, fact/pdt, Wood Sided | 799.95 |
| NJ Int P.E. Dragon | 99.95 |
| NJ Int MILW 40 Single or Double Door Box | Ea. 112.95 |
| NJ Int Brillinier Atlantic City, Cincinnati | Ea. 255.00 |
| NJ Int Long Island P-70 Coach 1938 Erie, 1/pdt, Tuscan | 199.95 |
| NJ Int Reading MU 3-car set, fact/pdt blue & white | due soon |
| NPP Reading K-1sd 2-10-2, like new in the box | 395.00 |
| NPP P&W Liberty Liner, mint | 395.00 |
| Oriental CZ Baggage "Silver Bear" #903 | 160.00 |
| Oriental CZ 16 Section Sleeper #400 | 160.00 |
| Oriental CZ 6-5 Sleeper #450 | 160.00 |
| Oriental CZ Coach "Silver Maple" #4742 | 160.00 |
| Oriental North Coast Limited Dome Coach #550, new | 119.50 |
| Oriental USRA 0-8-0 Original Version, un/pdt | 250.00 |
| Oriental Indiana RR #375-377 Coach-RPO, cust/pdt | 250.00 |
| Oriental GN 0-8-2 w/dosed Cab, Late, fact/pdt | 725.00 |
| Oriental GN 0-8-2 w/open Cab, Late, un/pdt | 623.95 |
| Oriental GN 0-8-2 w/open Cab, Late, fact/pdt | 725.00 |
| Oriental GN 0-8-2 w/open Cab, Early, fact/pdt | 725.00 |
| Oriental Alco C-628 Low Hood 1/pdt D&H or LV | 350.00 |
| Oriental EMD E-7 Phase I A&B Set, fact/pdt UP, Last one | 595.00 |
| Oriental EMD E-7 Phase II A&B Set, fact/pdt, PRR Tuscon Red | 595.00 |
| Oriental EMD E-7 Phase I Set, fact/pdt, NYC | 595.00 |
| Oriental EMD C-628 250hp High Hood, fact/pdt | 299.95 |
| Oriental Alco C-628 250hp Low Hood, fact/pdt, PRR or Conrail Ea. | 350.00 |
| Oriental Alco C-630 3000hp Low Hd w/H-Ad Truck 1/pdt, Conrail | 350.00 |
| Oriental Alco C-630 3000hp Low Hood, un/pdt | 299.95 |
| Oriental Alco C-636 3600hp Low Hood w/H-Ad Trucks, un/pdt | 299.95 |
| Oriental EMD E-8 2250hp Std w/Vertical Grill, w/o DB | 250.00 |
| Oriental Baldwin 2000hp PRR BP-20 B Unit, fact/pdt, Red Broad | 295.00 |
| Oriental EMD E-5 A&B's, Nickel Plated, Directional Lites etc due soon | |
| Oriental EMD F-3 ABA set Phase II, un/pdt as new | 350.00 |
| Oriental EMD F-3 ABA set Phase III, un/pdt as new | 350.00 |
| Oriental C&O G-8 0-6-0 & Tender w/Cross Compound Air Pump | 275.00 |
| Oriental Cal-Zephyr Dome Coach #4716-18 & 4719-22 | Ea. 175.00 |
| Oriental Alco C-628's 1/pdt Conrail, D&H, LV, PRR & SP | |
| Demonstrator Colors | Ea. 353.50 |
| Oriental GN Pullman Solarium Obs. w/o air | 141.50 |
| Oriental Alco C-420 c/pdt, L&N #1301 | 396.95 |
| Oriental EMD SD-40-2 Milwaukee Road Version #130-176 | 263.50 |
| Oriental EMD SD-40-2 SDO Line Version #6601-6623 | 263.50 |
| Oriental EMD/ATSF SD-40U #5000-5019 used, un/pdt, like new | 250.00 |
| Oriental EMD NW-5 G.N. Version, Original #186-195 | 291.95 |
| Oriental GE C-6-7 MP/UP Version #6000-5059 | 299.95 |
| Oriental GE U-30-C Early, BN, CO, CNW, Kaiser, MP, SDO, SP, w/p | 225.00 |
| Oriental Milw Road "A" Class 4-4-2 #34, Modernized Version | 535.95 |
| Oriental PRR P-5b Boxcar Electric c/pdt, #4702 | 497.50 |
| Oriental U.P. Triple Stack Smart Car, 1/pdt, 2 Car Articulated | 362.50 |
| Oriental L (MTA) C420, phase 2, #222-229, c/pdt, U #225 | 396.95 |
| Oriental ATSF SD40U #5000-5019, c/pdt, #5010 | 442.95 |
| Oriental Amoco Safety Train Training Car, c/pdt, Amoco | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Chevron | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Shell | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Mobil | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Esso | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Sunoco | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Gulf | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Valvoline | 225.00 |
| Oriental Amoco Safety Train Training Car, c/pdt, Castrol | 225.00 |
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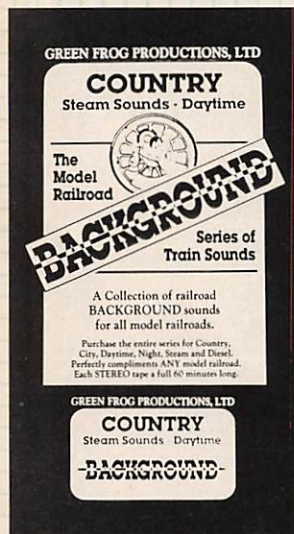
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AT THE THROTTLE

A lifelong journey

IF YOU are just getting started in this hobby, you may be taking the first steps on a lifelong journey. That's because people who try model railroading and like it generally stay with it for the rest of their lives. Our reader surveys tell us that the average length of time a reader of this magazine has been in the hobby is 20 years!

That point was brought home to me this past fall when I attended a tri-regional convention of the National Model Railroad Association held in Binghamton, N. Y. There I had the pleasure of renewing friendships with readers and authors whom I first met more than 20 years ago. I also met some people who told me model railroading has been important to them all of their lives.

For most of these veterans and newcomers, this magazine plays an important part in their hobby enjoyment. It's very flattering when a complete stranger comes up to me at one of these conventions and introduces himself or herself and says something like, "I really love your magazine. Keep up the good work."

When I thank them for the compliment it's on behalf of my talented staff and our many friends and contributors who make each issue possible. If this is your first issue of MR, you'll soon learn that it's written by hobbyists just like you, who contribute literally hundreds of photos, articles, cartoons, and drawings each year.

Our editorial staff works closely with contributors to get the photos and articles we think will interest most of you. This month's cover story is an outstanding example of how staff/contributor cooperation pays off. When John Pryke originally sent us the article on his beautiful HO scale New Haven layout, the photos were not of publication quality.

We could have assigned a free-lance photographer to take the photos, but John was determined to learn enough about layout photography to do it himself. Andy Sperandio, our managing editor, helped John improve his photography skills. Judging from the results, I think you'll agree that Andy is a good teacher and John is a good student.

So far I've told you that readers make significant contributions to this magazine and that our staff is ready to help them meet publication standards. While those are important points, there's more to tell. First of all, MR has been around a long time. This issue marks our 58th anniversary. As we note this anniversary, our circulation is at an all-time high of 215,000.

This success is due, I believe, to our consistently delivering a quality product. We cover the entire spectrum of scales and gauges and prototype interests, while focusing on the model railroader and his or her layout.

Because building a model railroad complete with structures, scenery, and details is the focus of the hobby, we feature at least one layout each month. This issue has two: John Pryke's HO layout and Grover Devine's garden railroad.

Seeing what others have accomplished is educational as well as inspirational. However, to build a model railroad you have to learn about railroad operations, car and locomotive modeling, benchwork, wiring, scenery, mechanics, and electronics.

That's where we can help. Our true strength is helping you learn about all aspects of this fascinating hobby through how-to articles with excellent technical illustrations done by our art staff.

And as a beginner you'll find some how-to material in almost every issue that has been included with you in mind. Right now we're running a series, "Especially for beginners," which centers on the construction of a small HO scale layout called the Cripple Creek Central.

As you embark on your lifelong model railroad journey we'd like to accompany you. At the beginning, we'd like to be your mentor. Later on, we hope you'll help us by sharing discoveries through the pages of this magazine. Bon voyage!

Russ Larson
Editor/Publisher



Our cover story

High noon on the New Haven

The zenith of the New York, New Haven & Hartford RR in HO scale

*The New York
New Haven
and Hartford
RAILROAD CO.*

BY JOHN T. M. PRYKE
PHOTOS BY THE AUTHOR

THE DOMINANT rail carrier in southern New England during the first 60 years of the 20th century was the New York, New Haven & Hartford RR. The New Haven connected the key ports of New York and Boston, and linked the industrial centers of Connecticut, Rhode Island, and Massachusetts. Textiles from Lowell, machine tools from Waterbury and Bridgeport, fish from Boston, aircraft parts from Hartford, and many other New England products found their way south and west to the rest of the world on the New Haven. Similarly, farm produce from the Midwest and fruit from California reached New England consumers over NYNH&H rails.

But freight was only part of the story. Because the New Haven provided key routes from New York City

to the population and financial centers of Boston, Hartford, Providence, and Springfield, almost half its revenue came from passengers. So lucrative was this service that the New Haven fleet of "varnish" boasted the largest number of parlor cars in the United States.

While the New Haven's route mileage was relatively short, it was long on innovation. It was the first railroad to electrify a major main line with high-voltage AC catenary (1911), one of the first to use three-cylinder steam engines (1928), the first to use mass-produced diesel switchers (1931), and the first to employ dual-service road diesels (1941). Steam, electric, and diesel power; long trains of heavyweight parlor cars on crack schedules; heavy-duty freight service; and a beautiful main line that snaked along the coasts of Long Island Sound and Narragansett Bay all combined to make the New Haven unique in American railroading.

... AND THE EARTH SHOOK

So, what got me started in railroading and kindled my love of the New Haven? I was born and brought up in New York City during the 1940s, half a block from the Third Ave. "el." Most of my early fascination with railroads was with the subway and elevated systems — their trains were never more than a few blocks away. Christmas of 1944 brought a used prewar Lionel set, and I quickly discovered that I could enjoy my love of trains on the floor of my bedroom.

In 1946, my family took the first of four summer vacations to Old Saybrook, Conn., on the New Haven's Shore Line from New York to Boston. My father was a model railroader himself, and three or four times each vacation he and I would go down to the Saybrook station after supper to watch the freights and limiteds roar by.



1. Left: Class I-4 Pacifics and heavyweight passenger trains made an indelible impression on a young John Pryke in 1948. As a modeler his subject is naturally the New York, New Haven & Hartford RR of that time, and he'll introduce you to his HO scale New Haven in his story and photographs.

2. Above: New Haven, Conn., is a hot spot on the NYNH&H main line because all trains passing through must change locomotives. Trains hauled from New York City by electric "juice jacks" get steam or diesel engines to go on to Boston, and vice versa. There's always lots of power in New Haven.

On the Friday before Labor Day, 1948, we went train-watching as usual and saw the Boston-bound *Advance Merchants Limited* come blasting through Saybrook at 65 mph, with its double-headed class I-4 heavy Pacifics trailing 23 heavyweight parlor cars. It was just dusk, the engines were working at full throttle to make the grade to the Connecticut River bridge, and the earth shook. I never forgot that moment — the New Haven bug had bitten.

HELLO HO, HELLO UNIMAT

My father and I set up a Lionel layout, but by the time I was 8 years old I'd become bored with ready-to-run cars and started to build Westbrook O scale kits. In 1948 I put together my first HO kit — smaller and more accurate than tinplate — and in early 1949 built a 4 x 8-foot portable HO layout in my bedroom. Not surprisingly, one of the first HO kits I built was a New Haven script-herald boxcar. Within a year the Lionel equipment had been sold, and I was committed to scale model railroading.

By the time I was in my mid-teens, steam locomotives were my favorite modeling subject, with heavyweight passenger cars a close second. When I was 16 years old, I bought a Unimat lathe and drill press combination and started

scratchbuilding. Three years later I had my first glimpse of some really good New Haven models at the New Haven Society of Model Engineers, and all my memories of 1948 awoke.

Alas, no accurate models of New Haven motive power existed in HO, but I had that Unimat. With a little ingenuity, several false starts, and a lot of patience, my first scratchbuilt New Haven steam engine, an I-5 streamlined 4-6-4, rolled out in August of 1959. It was followed by several others, and in 1962 my three-cylinder 4-8-2 won "Best in Show" at a Northeastern Region/National Model Railroad Association model contest. In 1964, this same locomotive, with more detail, won "First Place — Steam Locomotives" in the contest at the NMRA national convention in Philadelphia. Then in 1965 *MODEL RAILROADER* published the first of several photo essays on my New Haven steam power.

The years 1964 and 1965 were auspicious for my New Haven modeling. I joined the fledgling New Haven Railroad Historical & Technical Association (NHRHTA), then a group of about 50 die-hard modelers and railfans dedicated to keeping the history of the New Haven alive. (The NHRHTA has grown to more than 2,000 NYNH&H fans worldwide.) I also prepared a tape-slide

clinic for the NMRA, "Weathering Steam Locomotives With an Airbrush," which featured my growing roster of New Haven steam power. That clinic is still in circulation after 26 years!

In 1966, frustrated by the continuing lack of correct New Haven models in HO, a fellow modeler and I started Bennington Scale Models, a "spare time" company, which manufactured a line of etched-brass NH/B&M lightweight coaches and work equipment. If nobody else would bring out HO models of New Haven prototypes, I'd do it myself! Bennington Scale Models lasted until 1973, when production problems brought about its demise.

WHAT DO YOU DO WITH 48 NEW HAVEN LOCOMOTIVES?

In 1976, having built or acquired more than 22 New Haven steam engines, 12 diesels, 4 electrics, and countless pieces of rolling stock, I broke down and built my first "big" (12 x 24-foot) layout, naturally based on the New Haven of 1948. While limited in size, that layout did capture the spirit of my memories from Saybrook and gave me a fine opportunity to develop new skills, such as tracklaying, wiring, and operation.

In 1982, a change in work location caused me to move to Acton, Mass., and



3. Passenger and freight trains meet at speed on the double-track main line between New Haven and New London. An Alco DL-109, built in 1942 and later repainted in the 1948 pin-striped orange scheme, hustles an express west past the caboose of an eastbound freight.

buy a house with a *large* basement. My wife accused me of buying a basement and putting the house on top merely to keep rain off the railroad, but a model railroader would *never* do anything like that would he? With luck, and curses from the movers, I was able to salvage intact the main Boston and New Haven yards from my old layout. Finally I had the chance to construct my "dream" railroad, a model of the New Haven from New York to Boston.

THE NEW RAILROAD GROWS

Starting in the fall of 1982, I completed most of the trackwork and wiring on the layout shown here by early 1985. By mid-1986, trains were running by timetable, albeit through open benchwork, and that fall I began the scenery. Now virtually all the trackwork is complete, and about 75 percent of the scenery is in. Most of it I did myself, with occasional help from close friends.

The railroad measures 16 x 30 feet and is as accurate a representation of the New Haven circa September 1948 as I can make it. The track plan represents the main line from New Haven to Boston via Providence, with an electrified loop from New Haven to New York. There's about 500 feet of mainline track, along with large yards at Boston, New Haven, and Providence. Besides the straight point-to-point routing, a long passing siding serves as a reverse loop and allows out-and-back running — Boston to Providence and back to Boston, or New Haven to Providence and back. There's a 13" difference in elevation between the lowest point on the layout, the New York Loop, and the highest, the Attleboro/Canton Viaduct.

All track is handlaid on wood ties, except for five commercial double-slip switches. I used code 83 rail on the main line and code 70 in the yards. My minimum mainline curve radius is 36", but most mainline curves are 40" radius or more. Wherever possible, I've used tangent/spiral curves rather than constant radii for greater realism.

I've superelevated ("banked") all the mainline curves by about 4 scale inches. While few modelers bother with superelevation in HO, I find that a long train looks much more realistic when leaning into a curve. The ruling grade is 1.29 percent, which allows 16- to 18-car freights and 6- to 7-car heavyweight passenger trains.

The way-freight sidings in Readville are my most recent addition, and I'm planning to build some at New London too. Another addition will be an engine terminal for Providence.

SEACOAST, HILLS, TREES, AND THE CANTON VIADUCT

My scenery is hardshell with zip-texturing and home-cast rocks. It follows



4. Above: Class K-1b 2-6-0 no. 363 heads into the morning sun on its way to Providence with an eastbound peddler freight. The farm scene in the distance is in N scale, a good example of how "forced perspective" adds depth to John's scenery.

5. Right: Looking down over the Albany St. bridge at 5:15 p.m., we see two 4-6-4 Hudson types moving out from Boston's South Station. The New Haven class I-5 streamliner on the *Merchants Limited* is being paced by the Boston & Albany J-2 pulling the *Albany Express*. Far from being an unusual spectacle, John has re-created a common scene of 1940s passenger railroading.

New England prototype with some stretches of shoreline track brushing beaches and harbors. Modeling salt water proved interesting: I used a 1/4" base of epoxy with four coats of gloss medium "molded" into waves. To create surf I painted whitecaps on the wave tops near the beach.

The rolling hills — the highest of which has been christened "Pryke's Peak" — are punctuated with rocky pastures, farms, and New England stone walls. I've forced the perspective wherever possible by using N scale buildings in the background. One hillside farm





6. John scratchbuilt R-3a no. 3561 in 1961. After the engine won first place in the NMRA model contest in 1964, it was featured in the August

1965 MR. The three-cylinder heavy 4-8-2 is still running on John's layout, here drifting downgrade toward New Haven with the "fish train."

with an N scale barn and house is only 10" behind the tracks, but it looks much farther away. The farm fence is HO scale next to the track and tapers to N as it runs up the hillside.

And, typical of New England, there are trees everywhere. Some of the densely forested areas consist of a lichen "blanket" laid on a screen and supported by three rows of trunks in front. For stand-alone trees I used sagebrush tips coated with scenic foam. The sagebrush is so realistic that it's easy to model dying and dead trees by putting only a touch of green foam, or none at all, on the branches. The occasional rooftop peeps up through the woods. To give a September flavor, the leaves at the top of Pryke's Peak are beginning to turn orange.

The cities have a variety of kitbashed and scratchbuilt buildings blending into flats and backdrops, with lots of clutter. I've made sure to use automobiles

and advertising signs appropriate for 1948, even Dewey and Truman campaign posters. The passenger platforms and stations closely follow their respective prototypes. The New Haven station is a scratchbuilt, shortened version of the original.

One unusual structure is the ten-track Boston roundhouse. When I built it in 1980, I intended to cover the structural skeleton with walls and a roof. However, several friends suggested that I leave it open so the locomotives could be seen. I put the walls and roof "on hold" while I thought about it, and they're still on hold.

A key scenic feature is the Canton Viaduct. It curves across the middle of the layout carrying the Boston-Providence main line over a valley. The viaduct is 800 scale feet long and made from foam core covered by embossed stone paper. It dominates its surroundings much like its prototype in Canton, Mass.

LOTS OF NEW HAVEN, A LITTLE B&A

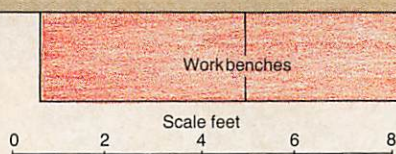
All my cars and locomotives follow prototypes on the New Haven in 1948. There are also some Boston & Albany locomotives and passenger cars on the Boston end of the line. About 90 percent of the engines are kitbashed or scratchbuilt. Most of these models date back to the 1960s and '70s, with some of the scratchbuilt New Haven steam engines now more than 30 years old. The engines that appeared in MR in 1965 are still going strong!

The 1940s were a schizophrenic period for the New Haven's paint shop, and by September of 1948 the variety of color schemes on diesels and electrics included orange with pinstripes, green with single gold stripes, and just plain green. Duplicating this has made my engine terminals colorful places.

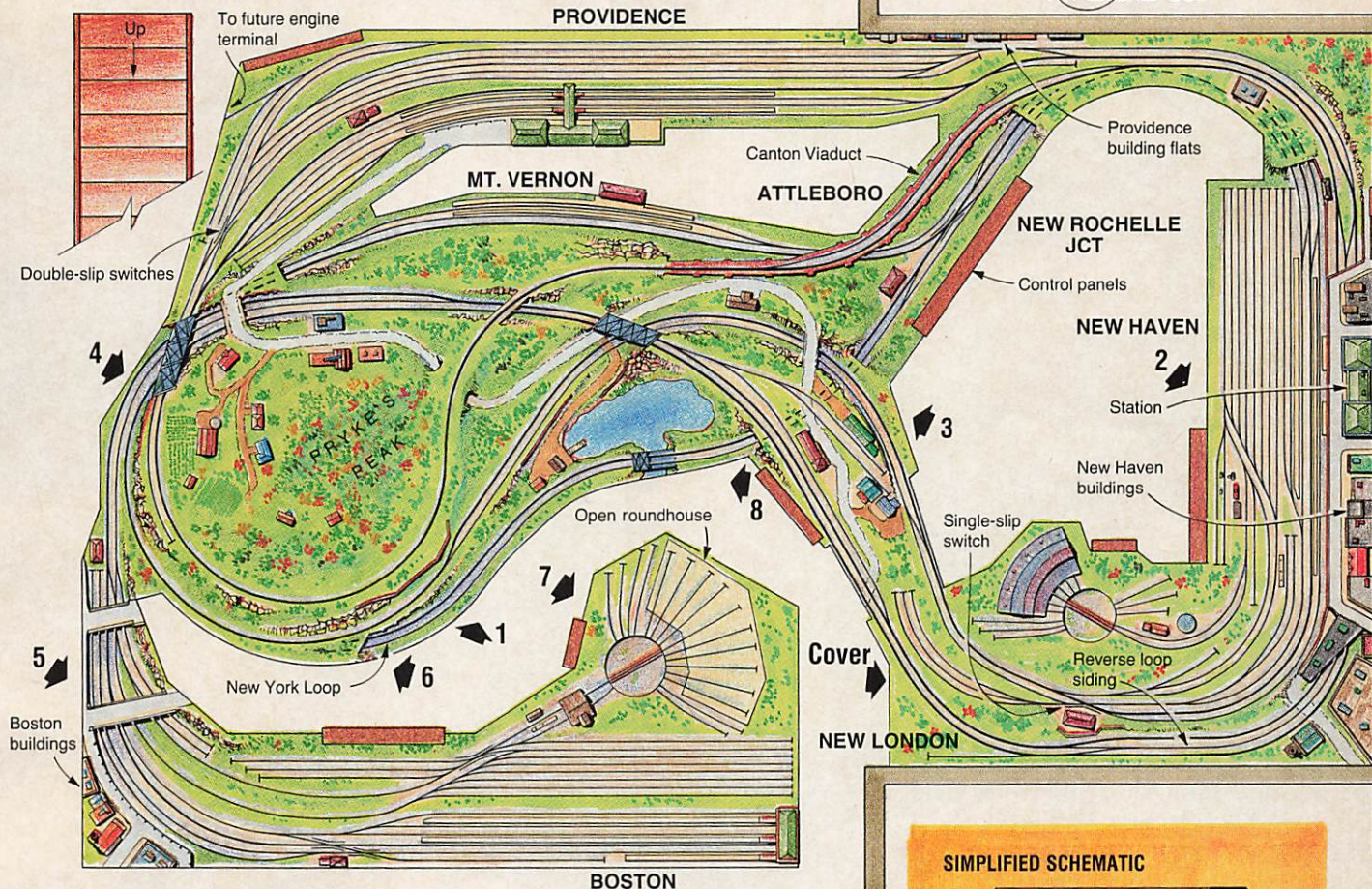
Most of the passenger equipment is kitbashed or scratchbuilt and includes

NEW HAVEN RR

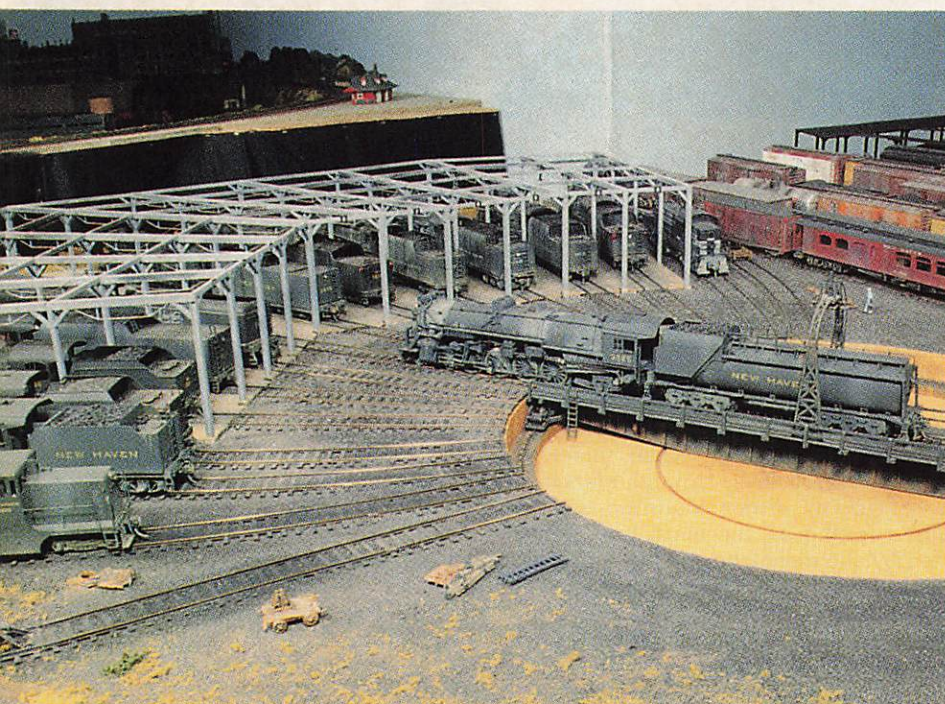
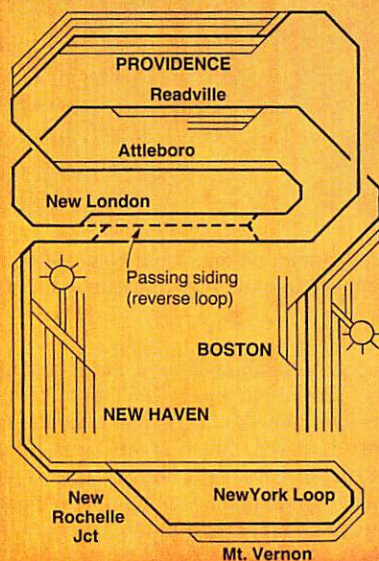
Track plan not to scale
Overall layout size: 18'-0" x 28'-0"
Minimum mainline radius: 36"



*The New York
New Haven
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SIMPLIFIED SCHEMATIC



7. When John built the framework for his ten-track Boston roundhouse, he meant to add walls and a roof. Enjoying the view of massed New Haven and B&A steamers, his friends argued that he should leave the structure open, and they've had their way for about 11 years.



8. Afternoon on the Shore Line, with the sun dipping over a small Connecticut harbor as a sailboat on auxiliary power motors out from

the fuel dock. Rattling over the bascule bridge, class R-1b light 4-8-2 no. 3325 heads east with a time freight bound for Providence, R. I.

accurate models of such name trains as the *Yankee Clipper* (1937 heavyweight version), the *42nd Street*, and the *Federal Express*. Most of my freight cars are from kits, detailed as appropriate, and I've kitbashed much of the maintenance-of-way equipment. All cars have been weathered as they would have been in the days of steam.

PERIOD CONTROL AND OPERATION

My manual cab control system closely duplicates 1940s-style operation. The main line is divided into 44 blocks that the dispatcher can assign to either of two mainline cabs. We usually operate with cab B running trains between Providence

and Boston and cab A running between Providence and New York. This forces a "crew change" in Providence and balances activity across the line.

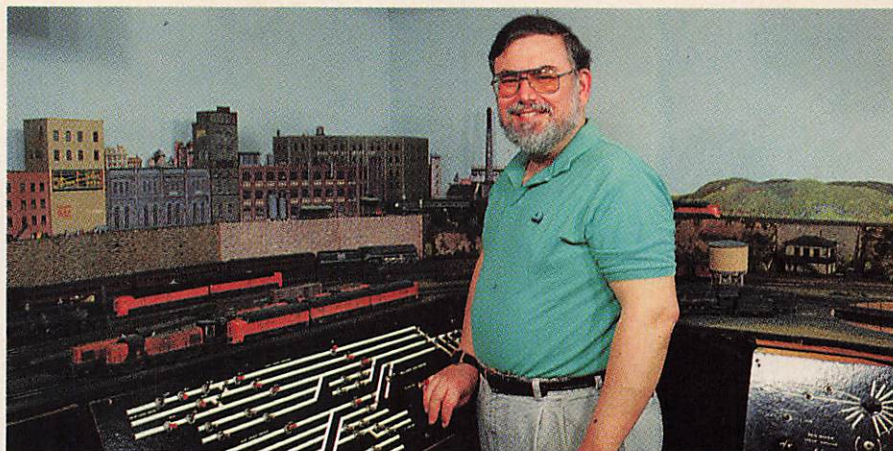
The yards operate under local control, with through or mainline tracks that may be assigned to the yard operator or the dispatcher. When under mainline control, these through blocks can be run by either mainline cab. Trains running on the main line are routed by the dispatcher, while routes in and out of yards are controlled by yard operators.

Full operation takes eight people: a dispatcher; two mainline engineers; three yard operators at New Haven,

Providence, and Boston; and two engine terminal operators at Boston and New Haven. We use radio headsets for communication between operators.

The mainline cabs are momentum throttles, and the yard and engine terminal cabs have taper-wound rheostats. All power comes from two Lionel Type Z transformers, built in 1946 and still humming along.

I developed my first timetable in July 1986, when my railroad was on the tour for the NMRA national convention in Boston. Based on a 1945 New Haven timetable, it models a typical day's operation between New York and Boston.



As a group marketing manager for Digital Equipment Corp., John is responsible for worldwide marketing of computers and services for small- to mid-size businesses. He's also part owner of a hobby shop, the Acton Model Railroad Center, in Acton, Mass. John is married, and has three children and two grandchildren. His wife tolerates his occupation of most of the basement; his eldest son, David, has helped with scenery; and both granddaughters like visiting to see "grampy's trains."

trains, but first-generation diesels — Alco DL-109s, RS-1s and RS-2s, and the occasional FA-1 or PA-1 — do some of the work.

A feature of the Boston-Providence main is the use of B&A power to turn express passenger trains through the Providence Loop. This duplicates the B&A practice of turning mainline expresses during off-peak hours on the Riverside Loop in Boston. It's an interesting operation, and lets us turn our passenger trains without resorting to the turntable or the "0-5-0" method.

Since 1986, I've developed a second timetable featuring more B&A activity, and a third timetable is in the works to allow way-freight operation. A group of 10 to 15 friends usually operates on the first Tuesday of each month between September and June. While this isn't a formal club, we try to make it a regular occurrence.

VISITING THE ACTON DIVISION

My friends and I are occasionally asked to hold an open house. At the 1986 Minuteman Convention we operated — by timetable, I might add — for three nights and hosted 350 to 400 guests. We held a similar session for an NMRA HUB Div. convention the following year. Due to a heavy professional travel schedule, I do need advance notice before having individual guests, and prefer that visits coincide with our monthly operating sessions.

AND THE FUTURE?

While the railroad is 75 to 80 percent

complete, it will probably never be entirely finished. Besides the projects I mentioned earlier, I hope to finish the scenery in Providence and Mt. Vernon over the next 3 years.

Still in the "staring and thinking" stage are an extension of the Boston yard across the aisle and down the back wall to model the Union Freight RR in Boston. Or breaking into the storage room next door (my wife will kill me!) for the Old Colony Line to Cape Cod. Or tacking on to the west end of the New Haven station with a line running to a hidden yard *under* Providence to duplicate the New Haven's Maybrook Line. Or . . . the list can be endless. The last 8 years of building followed a master plan I drew up in 1982; now the fun starts!

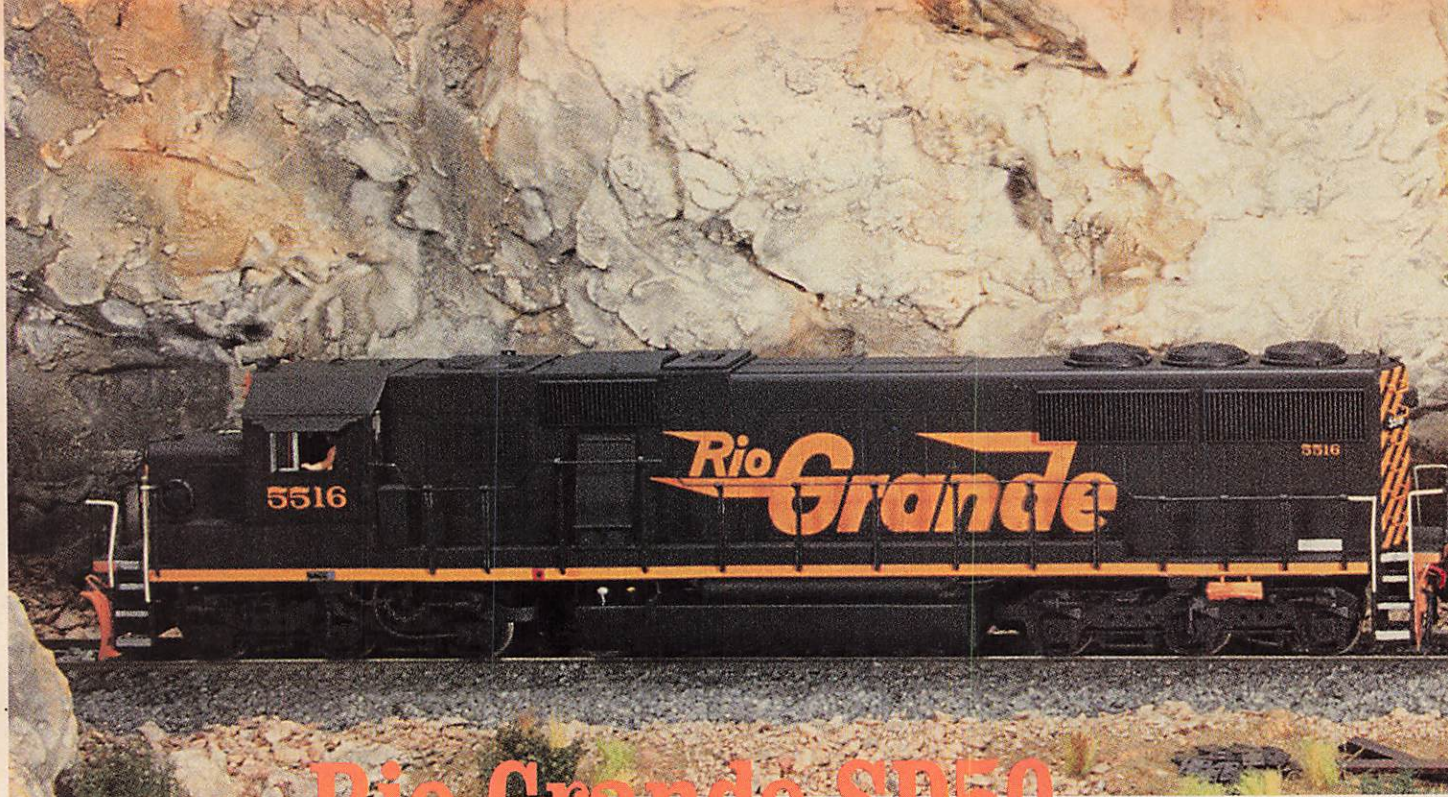
My railroad is a hobby that allows me to vent my creative streak and escape the trials of a hard-driving profession. However, it's also a chance for me to recreate my earliest and most vivid memories of railroading's golden era. In that pursuit, I've been a stickler for detail and have done my best to make my railroad as accurate as possible. While it's true that, even with the help of fellow New Haven fans in the NHRHTA, gathering detailed information on the prototype consumes many hours, the result is that the railroad lives in its period.

For the New Haven, 1948 was a high point. It was a Class 1 road with good management, good maintenance, and a quality image. My modeling recaptures the memory and spirit of southern New England's largest railroad, the New York, New Haven & Hartford. ◊

The electrified end of the line features m.u. locals and heavy "juice jacks" hauling through expresses to Penn Station and Grand Central. Electrics also power freights to Oak Island. Prototypical engine changes on all trains make New Haven a busy yard.

Shore Line traffic through New Haven, New London, and Providence includes express passenger trains — the *Yankee Clipper*, the *Federal Express*, and the *42nd Street* — and both peddler and heavy through freights. One of the latter is the New Haven's famous "fish train," reefers on an express schedule from Boston to New York.

Most freights and expresses proceed on from Providence to Boston, and on this stretch the timetable adds passenger locals. Steam powers most of the



Rio Grande SD50

Today's Denver & Rio Grande Western power in HO scale

BY DAVID A. BONTRAGER
PHOTOS BY THE AUTHOR

SINCE the 1880s, the Denver & Rio Grande Western has battled the Rocky Mountains with some of the largest locomotives in railroading. With its rugged operating profile, the Rio Grande has continued this tradition with the purchase of 17 Electro-Motive Div. SD50s. These massive 3,500-hp road units came in a single order, units 5501-5517, built in 1984. The SD50s can be found almost anywhere on the system, handling nearly any type of train, including helper service.

The horn, plow, and jumbo anti-climbers on the new SD50s strayed a bit from the Rio Grande's standard practices, but the distinctive black and orange paint scheme makes these units blend right in with the rest of the fleet. Originally the locomotives had sand pipes at both ends of the trucks, but the pipes at the yoke end (toward the fuel tank) have now been removed.

HO scale drawings and more general information on the SD50 locomotive appeared in the January 1984 issue of MODEL RAILROADER.

THE MODELS

For this project I used the injection-

molded plastic SD60 body shells by Rail Power Products. The major differences between the prototype SD60 and SD50 locomotives are internal, so I had very few changes to make. Externally the SD50 has fewer access doors at the rear of the long hood, but these minor differences didn't warrant the extra work necessary to remove them.

The RPP body shell fits perfectly on a slightly altered Athearn SD40T-2 chassis. These body castings have some heavy mold-parting lines, but most can be dressed up with filing. The anti-climbers don't have the correct taper for the SD50 locomotive, but this flaw affects only the handrail configuration.



Small details, neatly applied to ordinary plastic diesel models, produce unique locomotives that have a highly realistic "in-service" appearance.



The massive proportions of the SD50s are not apparent until they are seen broadside against the Front Range cliffs on the author's HO layout.

Even though there's nothing seriously wrong with the RPP cab, I used Athearn and Cannon cabs on my units because of their door drip rails, window gaskets, and rounded window corners. These are small details that mostly go unnoticed on operating models, but I still know they're there. Regardless of which cab is used, it must be shimmed with .015" styrene at the bottom to raise its roof to the proper height.

The Q fans that come with the shell don't have open grills, but they're well made and look good, especially with a little extra detailing. If you prefer fans with open grills, the conversion is easy as these RPP fans are separate parts.

I built a pair of SD50 locomotives to demonstrate how different construction methods can be used to produce the same result: a good-looking model.

LOCOMOTIVE 5516

Number 5516 is the powered lead unit of my two-unit consist, so I built it with a few more refinements than no. 5503. I used a Cannon cab and blower housing on this model and added an appropriate engine crew. This unit is modeled without sand pipes, as the D&RGW has removed them from the yoke end of their SD50 trucks. Since the sand pipes at the front are hidden behind the pilots anyway, I didn't bother with them.

Precision Scale handrail stanchions are my choice for this model, except for the left front side (Athearn) and the two extended stanchions in front of the blower housing (scratchbuilt).

I fine-tuned the gearboxes and re-powered the locomotive with a Sagami no. 163039 motor equipped with dual flywheels from NorthWest Short Line. The motor's 16-mm diameter leaves extra space between its case and the narrow RPP shell. This allows a little air flow to eliminate any possibility of shell distortion due to heat.

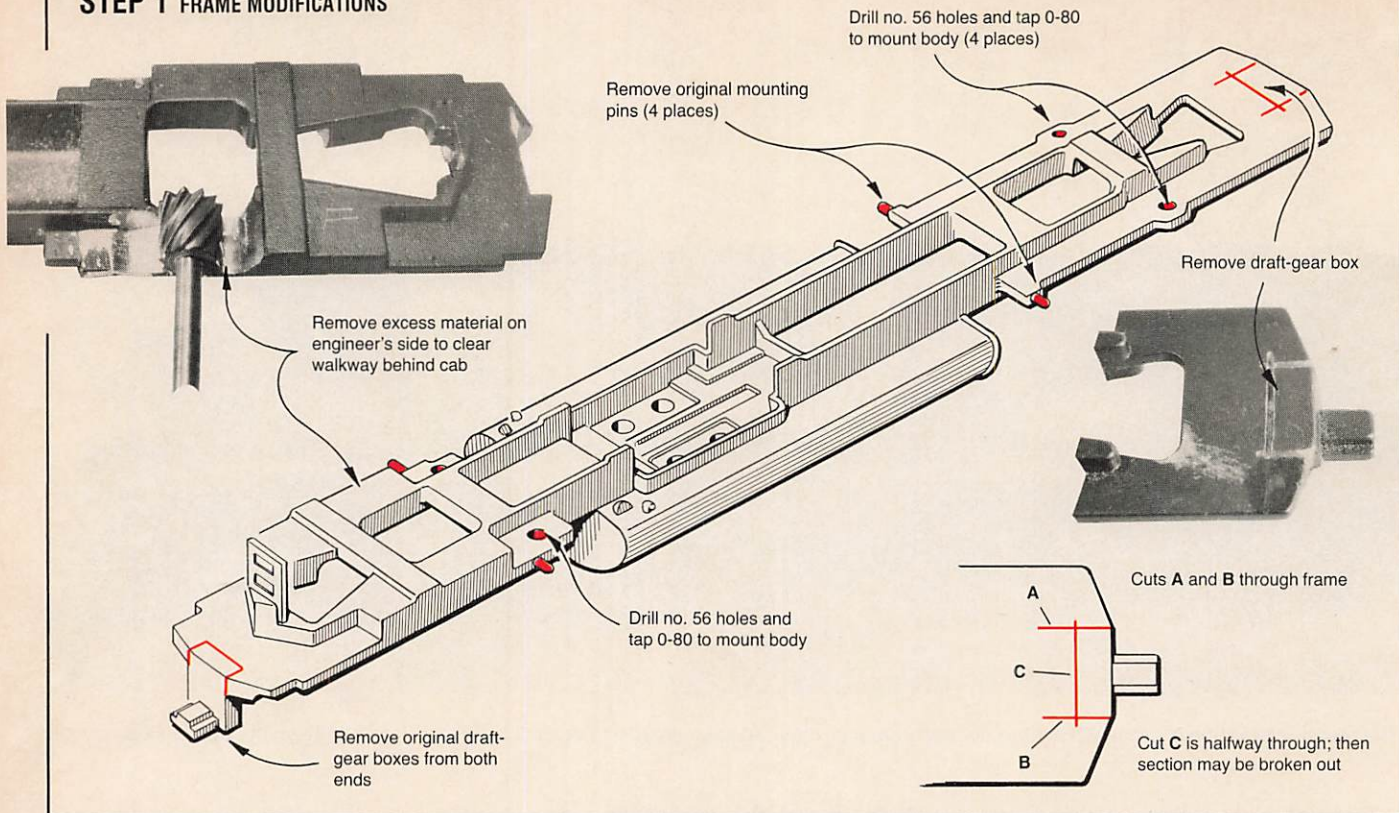
LOCOMOTIVE 5503

I built no. 5503 with the appearance of a unit that's been in service for some time. It still carries all of its sand pipes (as delivered) and has an Athearn cab. I made windshield wipers from .010" brass wire so they could be bent to fit against windows. These wire wipers



Judging from its dusty appearance on a Pueblo-bound manifest, Rio Grande SD50 no. 5503 has put in a lot of miles since its last trip through the wash rack. The big EMD is typical of the third-generation "high-tech" road locomotives that have grown in popularity in recent years.

STEP 1 FRAME MODIFICATIONS



lack the detail of the A-Line castings, but they look better than scale wipers hanging in mid-air.

On this unit, I used the original RPP blower housing. It's a little short, but the casting still looks good. Except for the ends and the special extended stanchions at the blower housing, Athearn handrail stanchions were used all the way around the unit.

The 5503 is unpowered, but I did equip it with NorthWest Short Line nickel-silver wheelsets.

COMMON DETAILS

Both of my SD50s carry a number of common details that enhance their realism. I put a lot of work into the truck sideframe details to produce nearly correct ones for this locomotive. The results are quite satisfying, as they display the prototype's unique appearance while preserving the EMD "family" look.

The RPP shells don't have rear number boards, so I had to fabricate appropriate parts to match D&RGW practices. No commercial horn correctly matches the type used on their SD50s. That's why I built these using Detail Associates parts and a scratchbuilt bracket.

My m.u. cables are made from very small, flexible electrical wire. Their connecting plugs are bits of plastic sprue I chucked in a motor tool and filed to size. I also drilled a no. 78 hole through the part so I could attach the cable to the plug.

To match the prototype scheme, I notched the wing on the "d" in *Grande* to fit around the radiator air intake grill on the fireman's side. Then I mixed paint to match the color of the decals and touched up the grill framework to match the prototype.

CHASSIS

I took each truck apart and carefully inspected all the gears and transmission parts. Any casting flash or rough edges were smoothed away, and then I washed the parts in warm water and detergent. I lubricated everything as it was reassembled and removed any play in the worm gears by adding thrust washers between the gear and the bearings. (Play in these worm gears will cause the model to surge when it runs downgrade with a train.)

From here on, I'll use photos and drawings to explain my methods of construction. The steps that follow are common to either version of the SD50.

Step 1 — Frame modifications. Wearing proper eye protection, I used a Dremel Moto-Tool and cutoff disk to remove the coupler mounting pads from the Athearn SD40T-2 frame. I made two lengthwise cuts through the frame on each side of the draft-gear mounts. Then I made a partial crosswise cut about halfway through the frame behind each mounting. By grasping the bracket with a pair of pliers, I easily

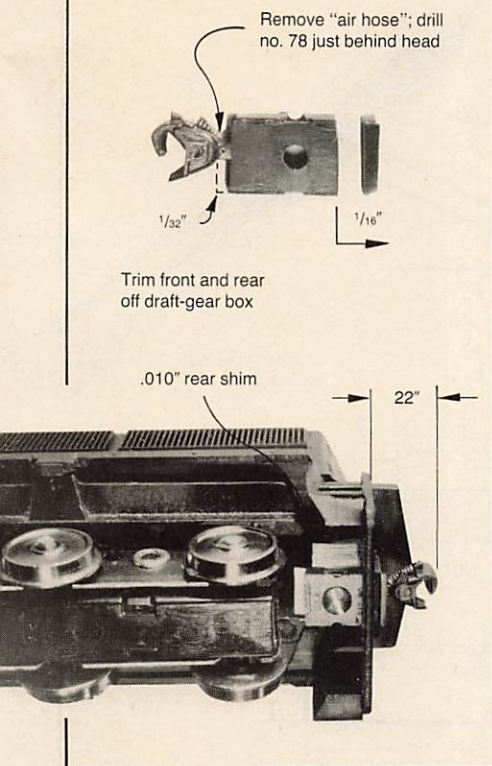
broke off the scrap material. Then I cleaned off sharp edges with a file.

The SD50 cab is positioned closer to the forward end of the carbody than the cab of an SD40T-2. Athearn's SD40T-2 frame casting has a raised area that must be milled down to extend the SD50 walkway toward the front of the unit on the engineer's side. Once again, I did this work with my Dremel tool (using proper eye protection), taking off a small cut at a time until the walkway thickness was uniform all the way to the front truck bolster bar.

I used the file to remove all four of the original body-mounting pins. Then I marked and drilled holes through the frame, at the four locations indicated, for the body-mounting screws. Next, I located these holes near the outer edge of the frame so that the screws would be far enough away from the hood sides to provide clearance for the screwdriver. I slipped the frame into the body, centered it, and used the frame holes as guides to drill matching holes in the body. Last, I tapped the holes in the frame 0-80.

Step 2 — Couplers. I used Kadее no. 5 couplers on both ends of my SD50s. First, I cut off the uncoupling pin flush with the underside of the coupler. The pin doesn't really look like an air hose, and I don't use uncoupling magnets. Eliminating it lets me set the coupler closer into the plow for a more realistic

STEP 2 COUPLERS



appearance. If the pin is left intact, you'll need to mount the coupler in a more extended position so it will clear the plow. At this time I drilled a no. 78 hole vertically through each coupler shank, just back of the head, for later installation of an uncoupling lever.

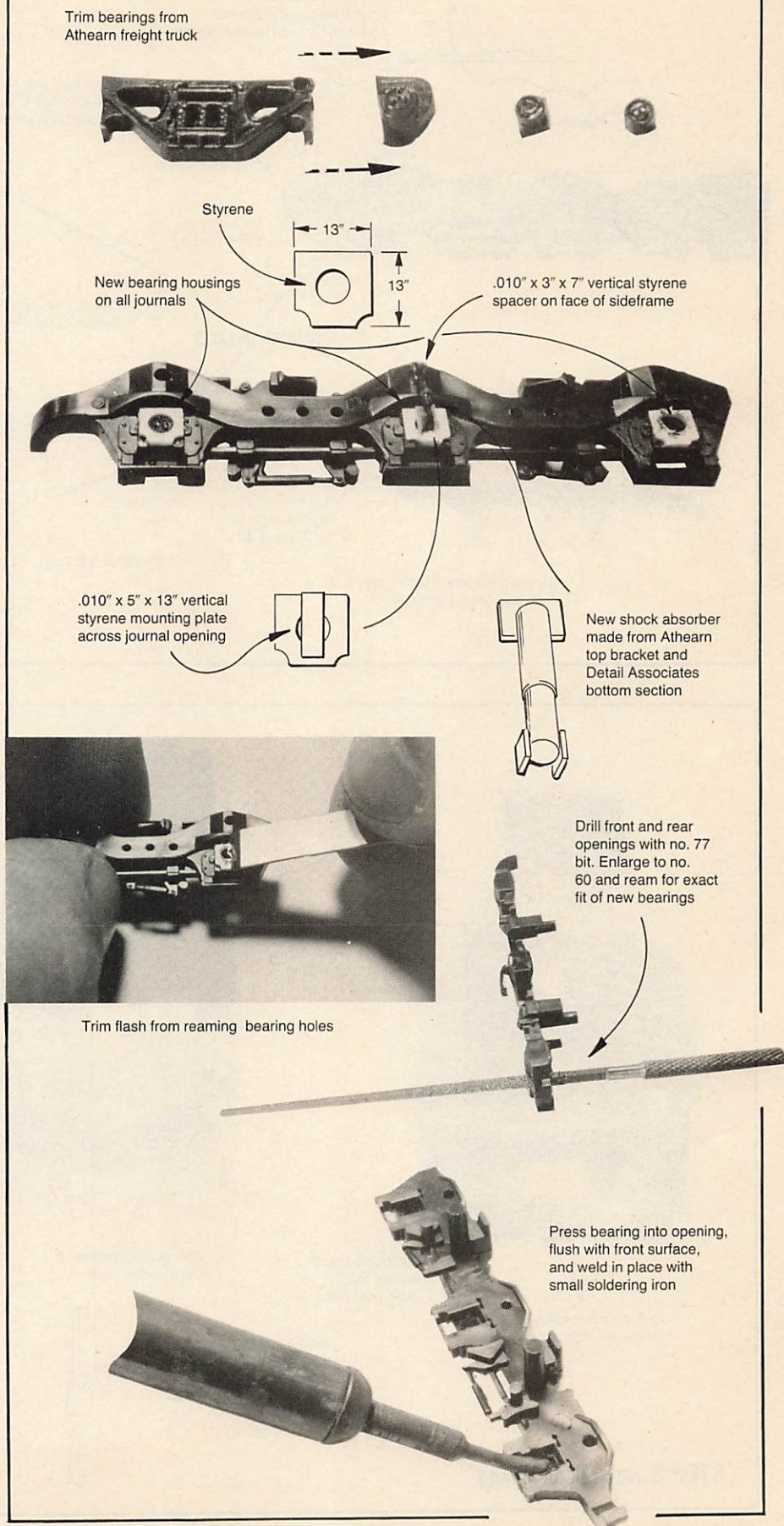
I also trimmed material off both ends of the draft-gear boxes to remove undesired striker plate details from the front and to gain more rear clearance.

Step 3 — Sideframe bearings and struts.

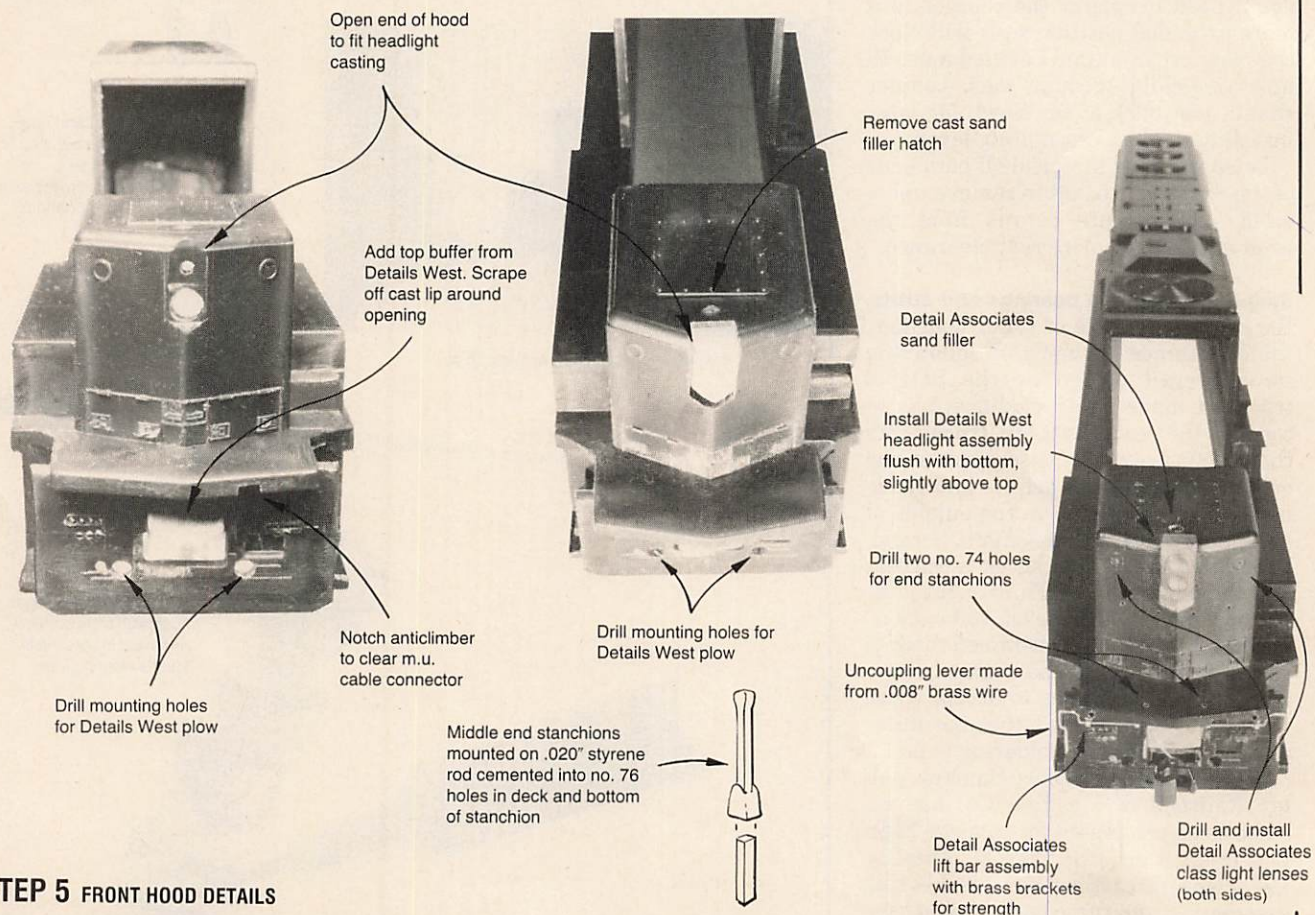
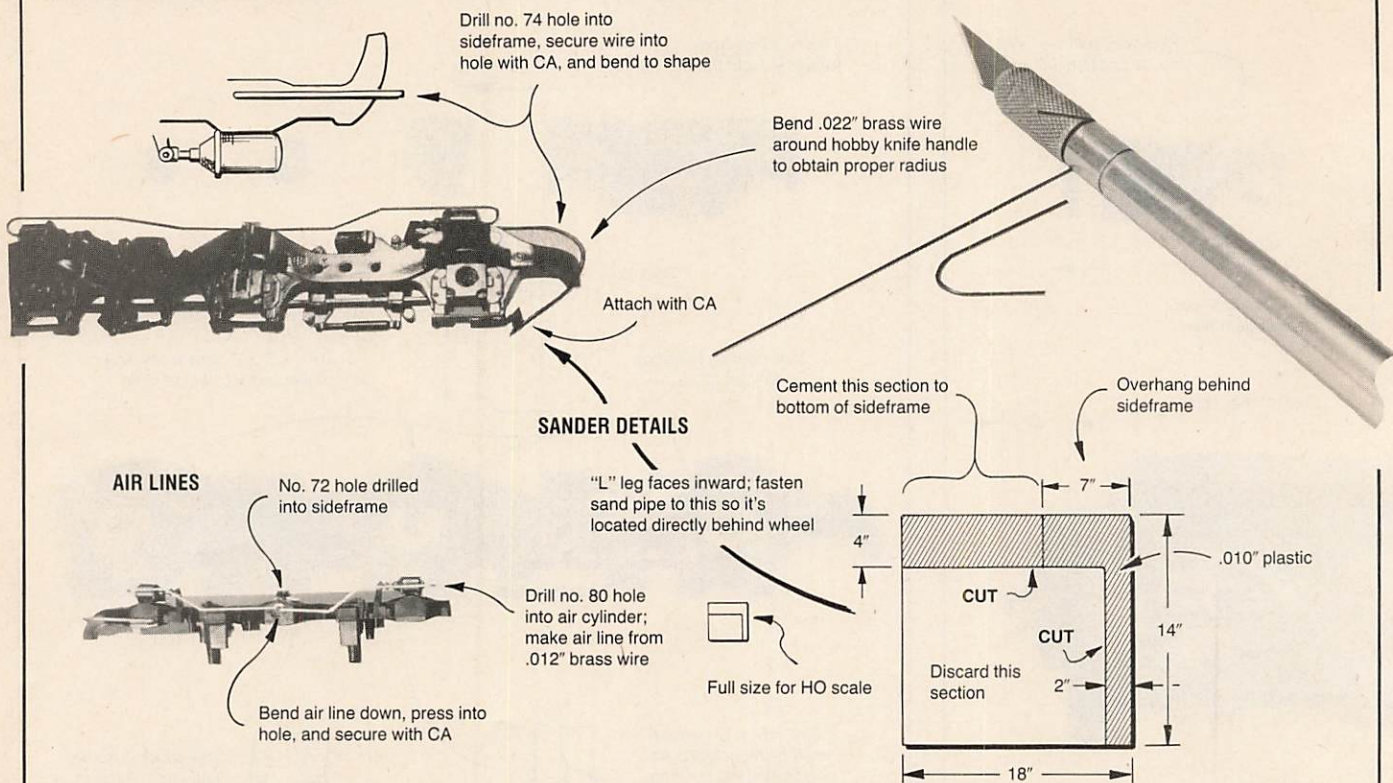
Except for the style of roller bearings, the sideframes of the SD50 follow the same overall design as the SD40-2 trucks. I made three modifications to convert the stock Athearn trucks into the SD50 type. First, I scraped off the original bearing cap details and made new housings that fit on the outside of each journal bearing assembly. Second, I modified the center shock absorbers and their mountings. Third, I cut journal bearings from Athearn roller-bearing freight trucks and trimmed them to size. Then I drilled and reamed openings in the sideframes to accept these new parts and welded the dissimilar plastics with a small soldering pencil.

Since I built my SD50s, Smokey Valley Railroad & Machine Co. has released a sideframe kit for General Electric Dash 8 six-axle diesels. This kit has separate castings for the bearing assemblies, and these parts can be used to make the SD50 sideframe.

STEP 3 SIDEFRAME BEARINGS AND STRUTS



STEP 4 SIDEFRAME DETAILS



STEP 5 FRONT HOOD DETAILS

Step 4 — Sideframe details. Air brake lines are important details that are seldom modeled, which is why I always try to add them to my locomotives. Mine were fabricated from brass wire, bent as shown in the diagram. I drilled holes in the brake cylinders and added the plumbing in two pieces. In this way, it was easy to fit one end into the brake cylinder and to join the two halves at a hidden hole in the top center of the sideframe. A drop of cyanoacrylate adhesive (CA) held everything in place without the hassle of trying to make multiple bends in a single wire.

Note that the air line on the lead truck (left side) must be bent back closer to the front air cylinder to clear the handbrake chain.

Adding sand pipes to the yoke end of the trucks was done in a manner similar to the way I mounted the air lines. In this case I drilled the top mounting hole above the truck journal and bent the wire around and into position. The bottom end of each sand pipe was secured with a styrene bracket I cemented to the underside of the sideframe.

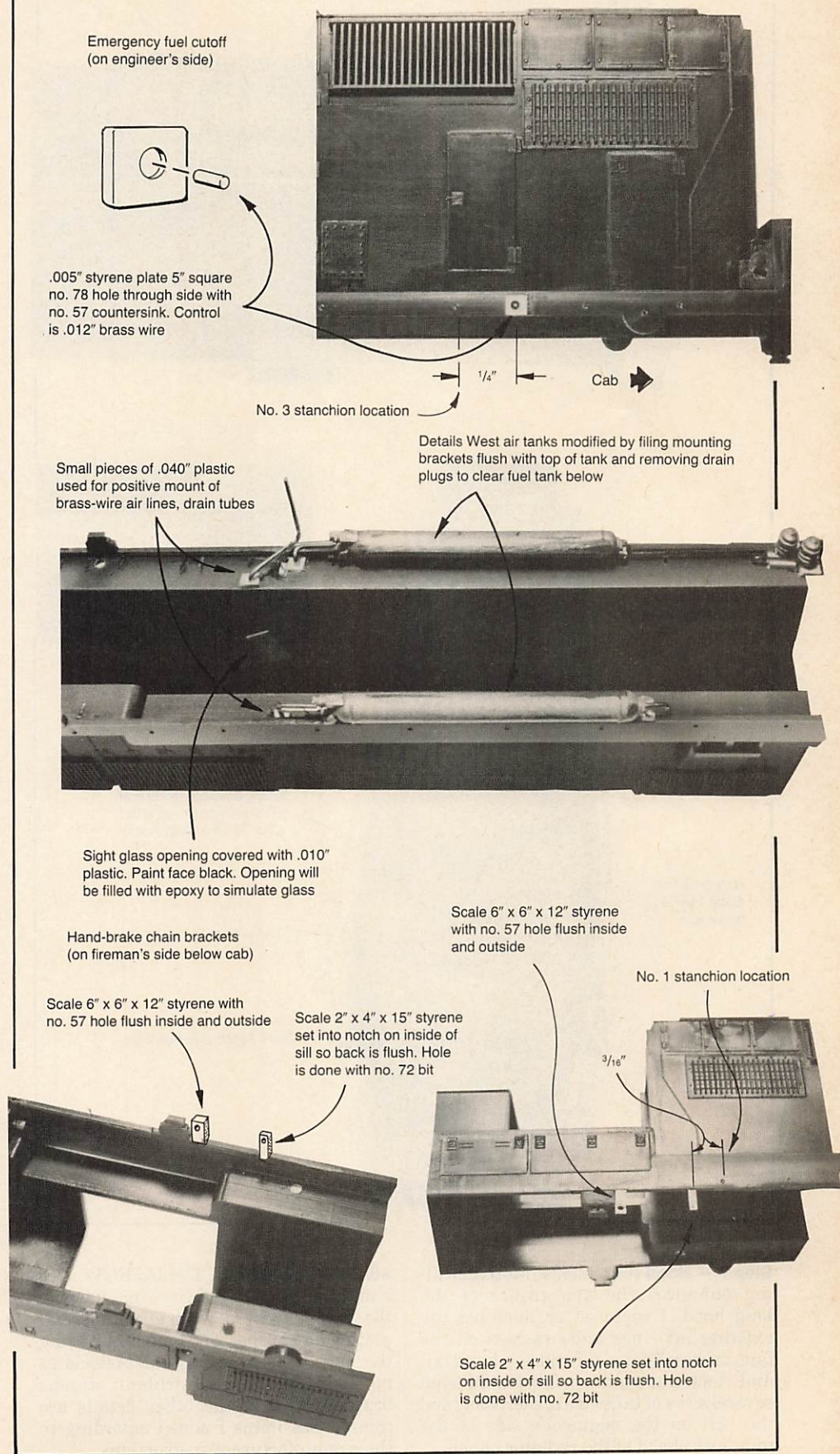
Step 5 — Front hood details. To me, adding the unique railroad options is one of the most enjoyable parts of building locomotive models. The toughest job involved in detailing the short hood was making the appropriate opening to accept the Details West headlight assembly. I worked carefully to get a perfect fit and to keep the assembly centered.

The two middle handrail stanchions at each end must be mounted flush on the deck. To strengthen these butt joints, I drilled and added a .020" styrene pin to each stanchion. These pins were cemented into holes drilled into the tops of the anticlimbers. All the other details were mounted as specified by their respective manufacturers.

Step 6 — Lower sill details. The emergency fuel cutoff switch came next. Like many of the other details, I scratchbuilt it from a rectangle of styrene and a bit of wire. I used bits of styrene to simulate the brackets for the handbrake chain.

I used Details West air tanks on both sides of the SD50s. These are nicely detailed, but do need to be modified slightly so they'll fit into the restricted space between the sill and the fuel tank. I also added the accompanying filters, drain pipes, and plumbing using small squares of styrene as mounting pads.

STEP 6 LOWER CARBODY DETAILS

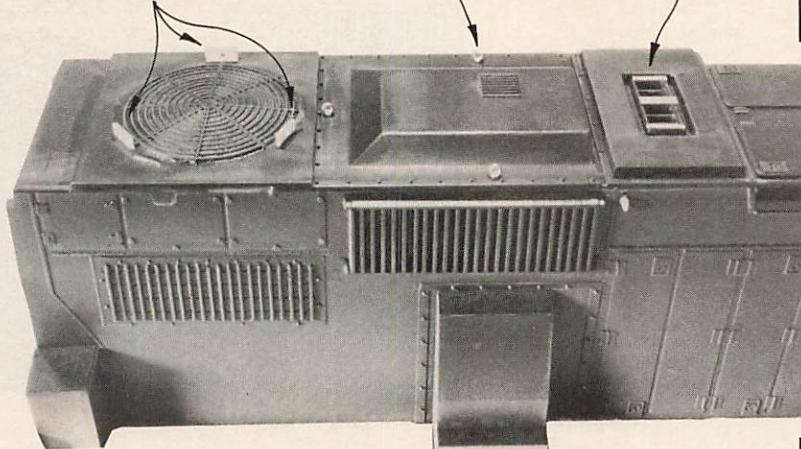


STEP 7 HOOD ROOF DETAILS

Lift brackets — scale 2" x 4" x 9" styrene with no. 72 holes (3)

Detail Associates lift rings

.005" styrene exhaust port trim



.022" brass wire electrical conduits

Drill cast lift rings through with no. 79 bit

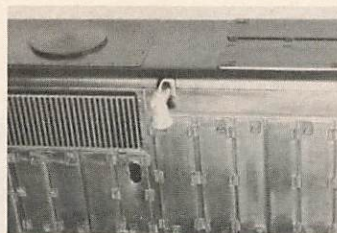
Rear grab iron made from .012" brass wire

.022" brass wire circuit conduit

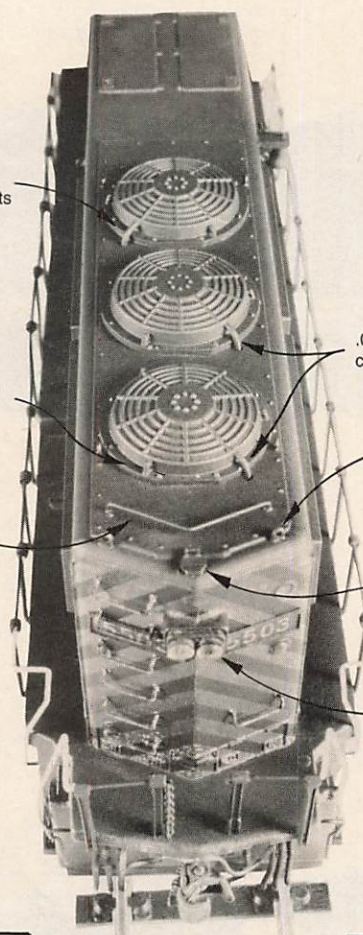
Lifting brackets made from .010" styrene drilled with a no. 76 hole (both sides)

Detail Associates sand filler

Detail Associates headlight



Details West bell with .010" wire air line



Step 7 — Hood roof details. More detailing enhances the appearance of the long hood. I replaced or modified the existing lift rings and brackets on the fans and roof panels. I added a handrail and electrical conduits fabricated from several sizes of brass wire, then mounted the bell on the engineer's side of the unit, just ahead of the radiator panels.

Step 8 — Cab details. The D&RGW uses a unique low-profile five-chime horn on the SD50s. There isn't a commercial casting for this horn, so I made one using the horn bells from a Detail Associates no. 1603 kit and a scratchbuilt styrene bracket. Most of the other details are commercial items I added according to their manufacturers' instructions.

Bill of materials

A-Line (Proto Power West)
29200 wipers

Athearn
4500 or 4504 SD40T-2
90399 roller-bearing freight trucks

Builders In Scale
250 black chain (40 links per inch)

Cannon & Co.
1501 thin wall cab (used on 5516)
1601 blower housing kit (used on 5516)

Detail Associates
1003 rear headlight
1202 bell (used on 5503)
1301 sunshades
1508 m.u. hoses (front)
1603 horn kit
1708 classification light lenses
1709 headlight lenses
1802 antenna base
1901 round hood vent
1902 cab vent (used on 5516)
2206 wire eyelets
2212 uncoupling levers
2502 .008" brass wire
2503 .010" brass wire
2504 .012" brass wire
2505 .015" brass wire
2506 .019" brass wire
2507 .022" brass wire
2509 .033" brass wire
2528 .015" x .042" flat brass wire
2602 rear number board kit
2801 air tanks (used on 5516)
2802 damping struts
2807 speed recorder (cable only)
3001 sand filler hatch
7103 rerail frogs
101101 lift rings
102213 uncoupling lever brackets

Details West
129 bell (used on 5516)
138 lower front headlight
139 air filters
172 running lights
195 buffer plates
197 fuel tank bracket (front only)
204 air tanks
206 snowplow

Grandt Line
3902 .020" plastic rod
3904 .040" plastic rod

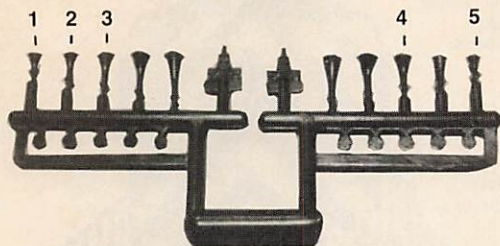
Kadee
5 couplers

Microscale
87-28 decals

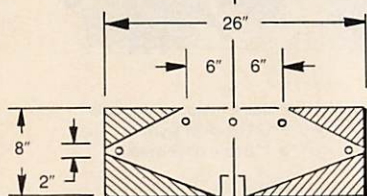
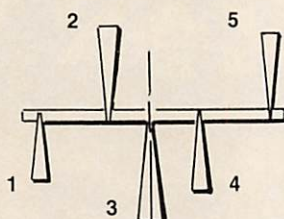
NorthWest Short Line
4026 flywheels
4826 universal coupling kit
4846 universal coupling kit
20204 drive shaft, 2 mm
71314 wheelsets (used on 5503)
71414 wheels
163039 Sagami motor

STEP 8 CAB DETAILS

AIR HORNS



Bells from Detail Associates set 1603



Mount bracket flush with top of cab roof

.040" styrene rod, notched and cemented to bottom of bracket

All horn-mounting holes are no. 79



Horn assembly mounted just ahead of roofline

A-Line windshield wipers (all 4 end windows and center windshield)

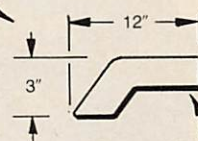
.015" styrene shim to raise cab



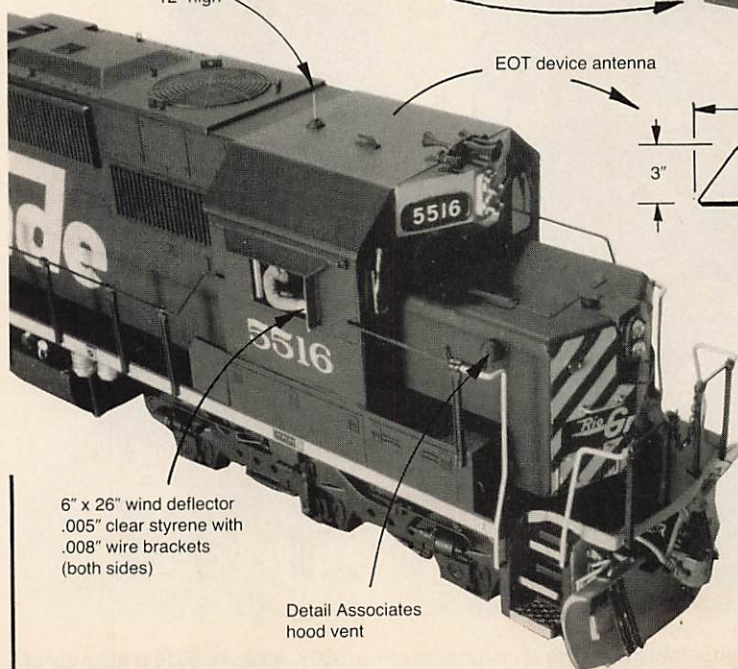
Detail Associates cab vent

Whip antenna 12" high

EOT device antenna



.010" styrene



6" x 26" wind deflector
.005" clear styrene with
.008" wire brackets
(both sides)

Detail Associates hood vent

Precision Scale

- 3150 air hose, rear
- 3152 m.u. hoses (rear), air hose (front)
- 3153 air hose (glad hand only)
- 3936 short stanchions, plastic
- 3938 deck mount stanchions, plastic
- 39011 fuel sight glass
- 39036 dial fuel gauge
- 39039 m.u. receptacles
- 39073 long stanchions, brass
- 39079 fuel fillers

Rail Power Products

- SD60 body shell

Scalecoat II

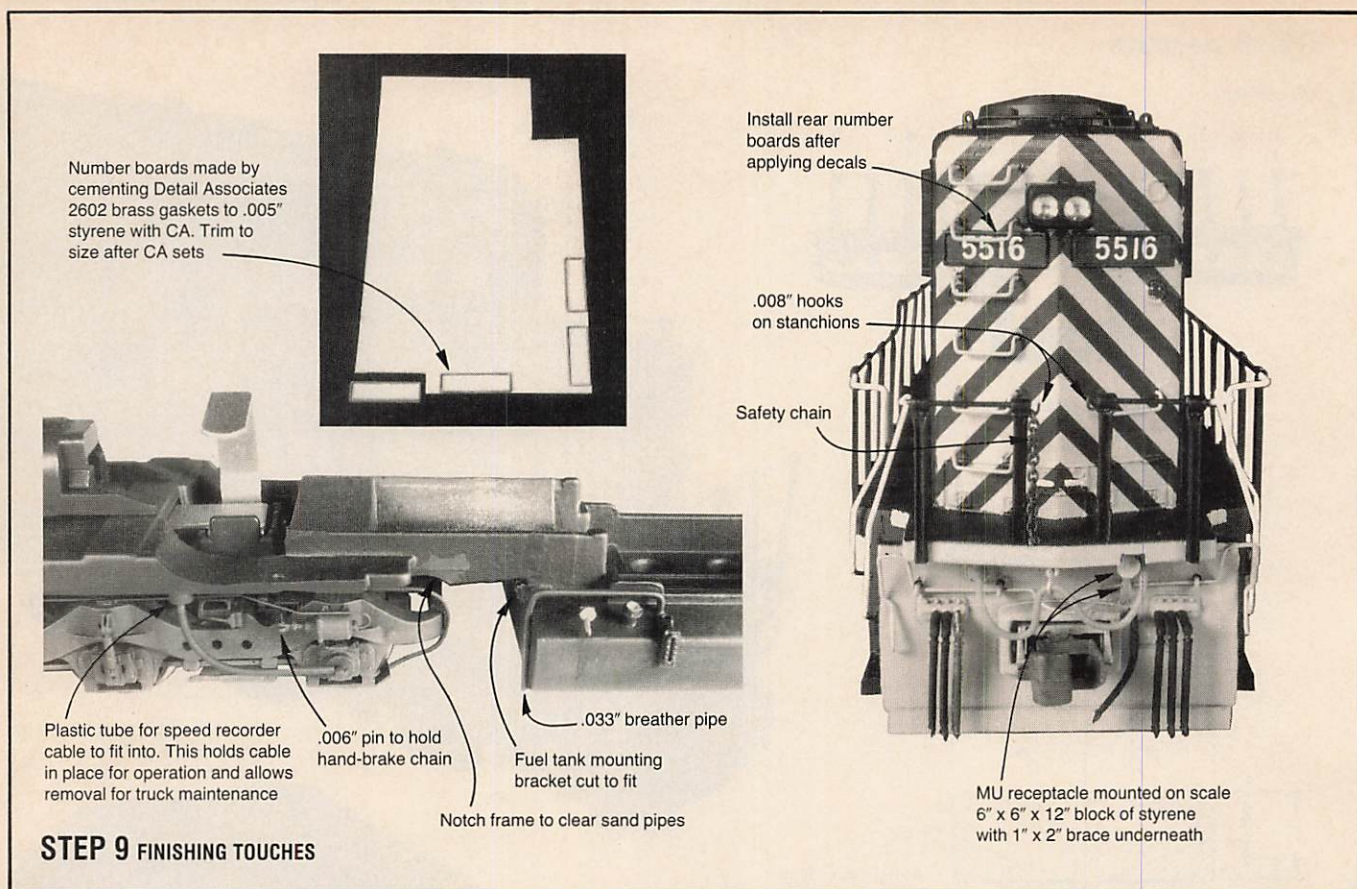
- 2010 Black
- 2015 Reefer Yellow
- 2016 Reefer Orange
- 2048 Thinner

Tichy Train Group

- 3015 grab irons, drop type

Warren's Custom Services

- 8030 upper front headlight



STEP 9 FINISHING TOUCHES

Step 9 – Finishing touches. Since number boards aren't included on the body casting, I fabricated them from .005" styrene with a brass frame taken from a Detail Associates no. 2602 set. I didn't install them until I'd painted and decaled the unit.

If you installed the sand pipes on the trucks, be sure to make small notches in the frame to clear these details.

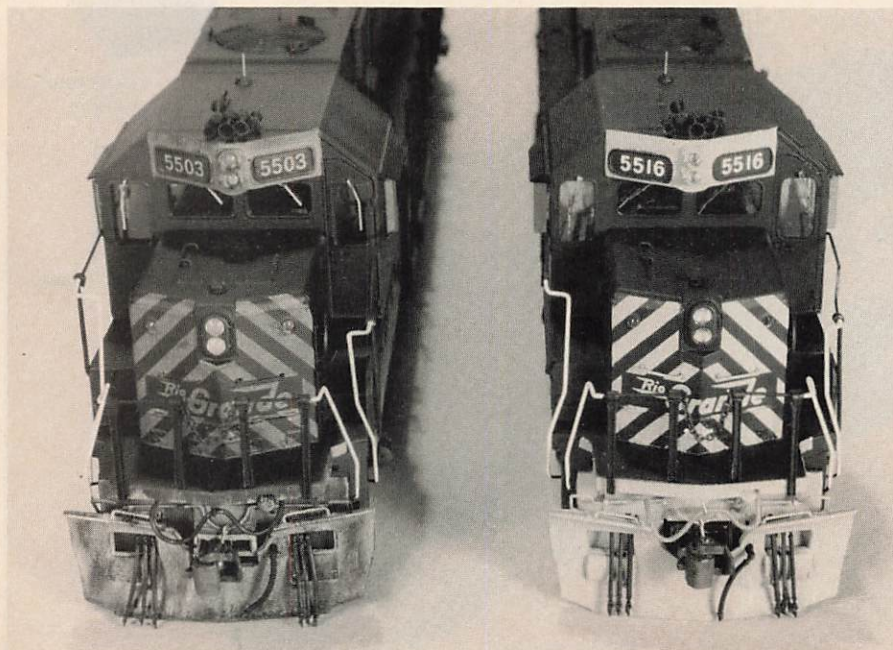
Step 10 – Weathering. My SD50s have widely differing degrees of weathering to reflect prototype operating conditions.

Big engines tend to be used very heavily in the D&RGW's mountainous territory. With maximum tonnage trains, full-throttle operation is the norm as the units battle the grades and work through the tunnels at relatively slow speeds. Their roaring exhaust not only emits a steady stream of oily soot from the diesel engine, it also blows accumulated crud off the ceilings of the tunnel and stirs up the dirt from the floor!

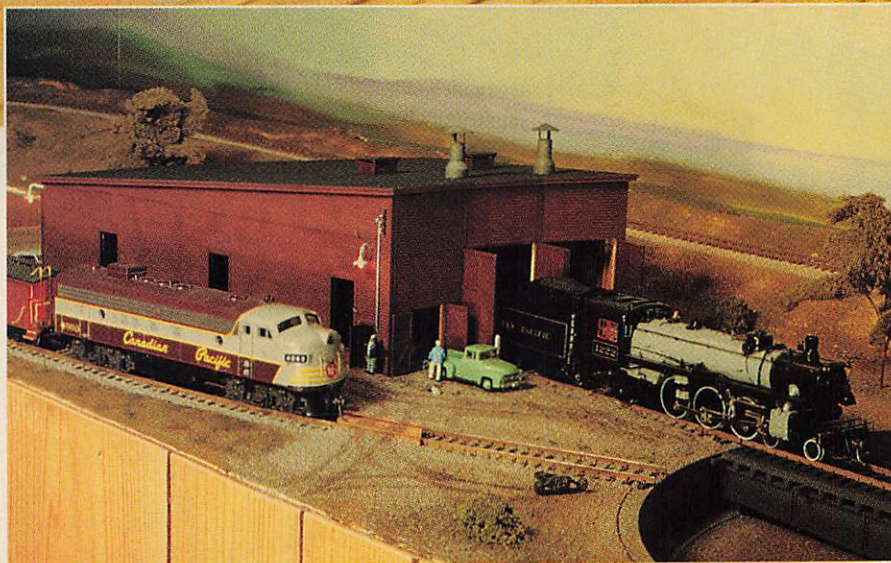
Engine 5503 shows the effects of many trips as a trailing unit through this dirty environment. I simulated the oily dirt with several layers of dark gray chalk dust set with Dullcote. This chalk dusting was supplemented with dry-brushing to highlight specific areas like the snowplow, walkways, and steps.

On the small items, such as m.u. hoses and cables, grab irons, and uncoupling lever, I used thin washes of dirty colors. The white areas on the handrails are painted with Floquil Antique White (no. 110085) to give them an off-white, dirty look. Then I added a thin wash of black over the heavily used areas.

Number 5516 received only minimal chalk dusting around its radiator air intakes and exhaust stack where dirt first begins to accumulate. I wanted it to look like a unit fresh out of the shops after a repainting or washing. Its contrast with no. 5503 helps to convey the idea that locomotive maintenance is a continuing process. ☛



Step 10. Comparison shows the effects of many miles on no. 5503, while no. 5516 is fresh out of the shops. Different weathering enhances the illusion that a model railroad is an ongoing enterprise.



JANUARY 1992

MODEL OF THE MONTH AWARD

MODEL RAILROADER
MAGAZINE

AWARDED TO **KEITH C. HOPKIN**

FOR MODELING this two-stall wood roundhouse in HO scale. The model is based on a Canadian Pacific (former Kingston & Pembroke Ry.) roundhouse that once stood in Renfrew, Ontario. Keith worked from a prototype photo and measurements he took at the building site. He used Northeastern clapboard siding for the walls and scribed the back side of it to represent boards on the interior. Keith assembled the interior woodwork board by board, using various sizes of Northeastern scale stripwood. He painted

the exterior with Floquil Tuscan Red and used maple wood stain on the interior wood. Keith used sandpaper that he painted Floquil Grimy Black to simulate the gravel and tar roof. The windows and doors are by Grandt Line, and Keith scratchbuilt the smokejacks and roof vents. Figures are from Preiser and Miniatures by Eric, while the pickup is from Alloy Forms. Details are a mixture of scratchbuilt items and commercial parts from Juneco Scale Models and Alloy Forms. Keith also took the photos.

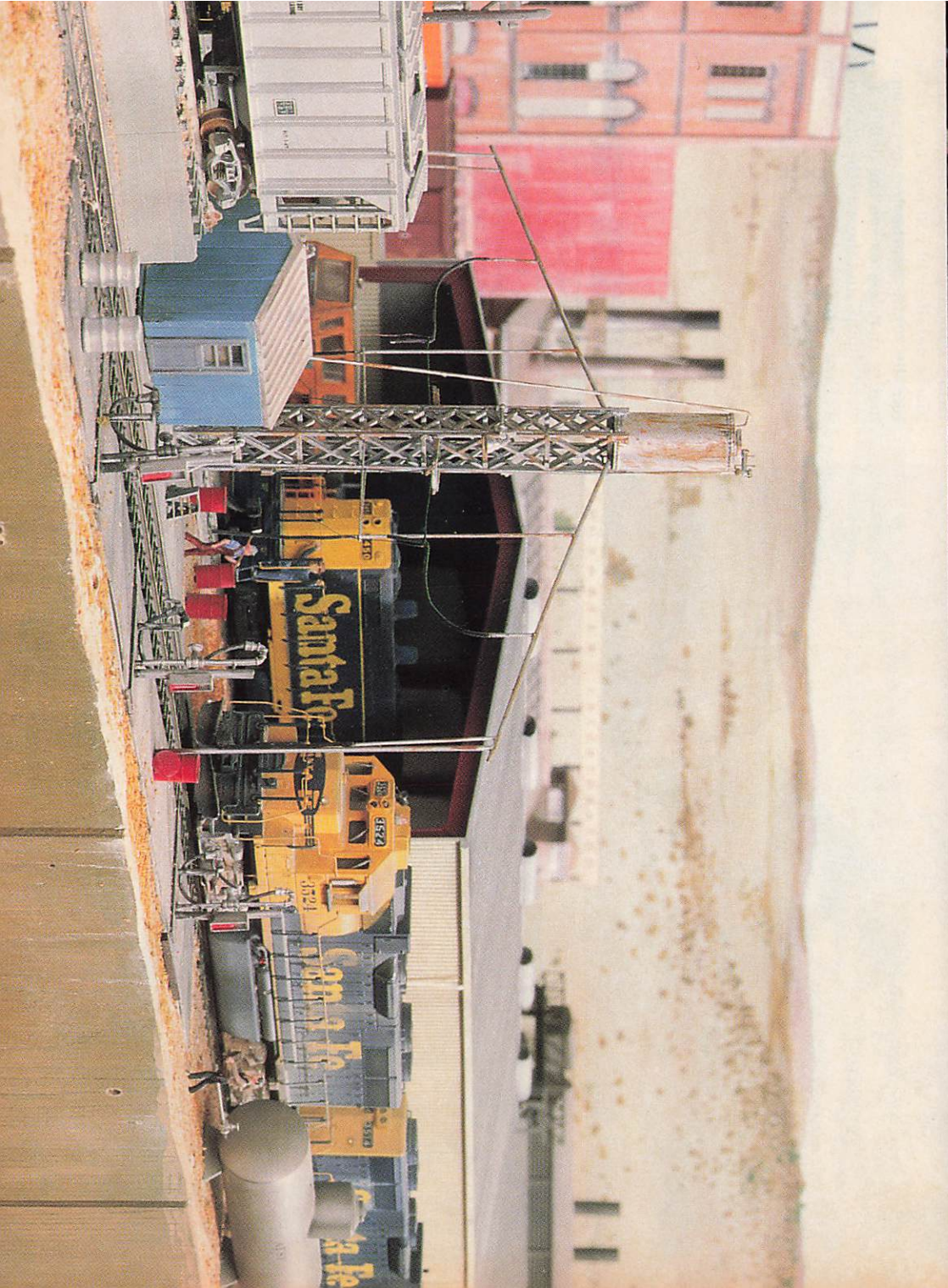
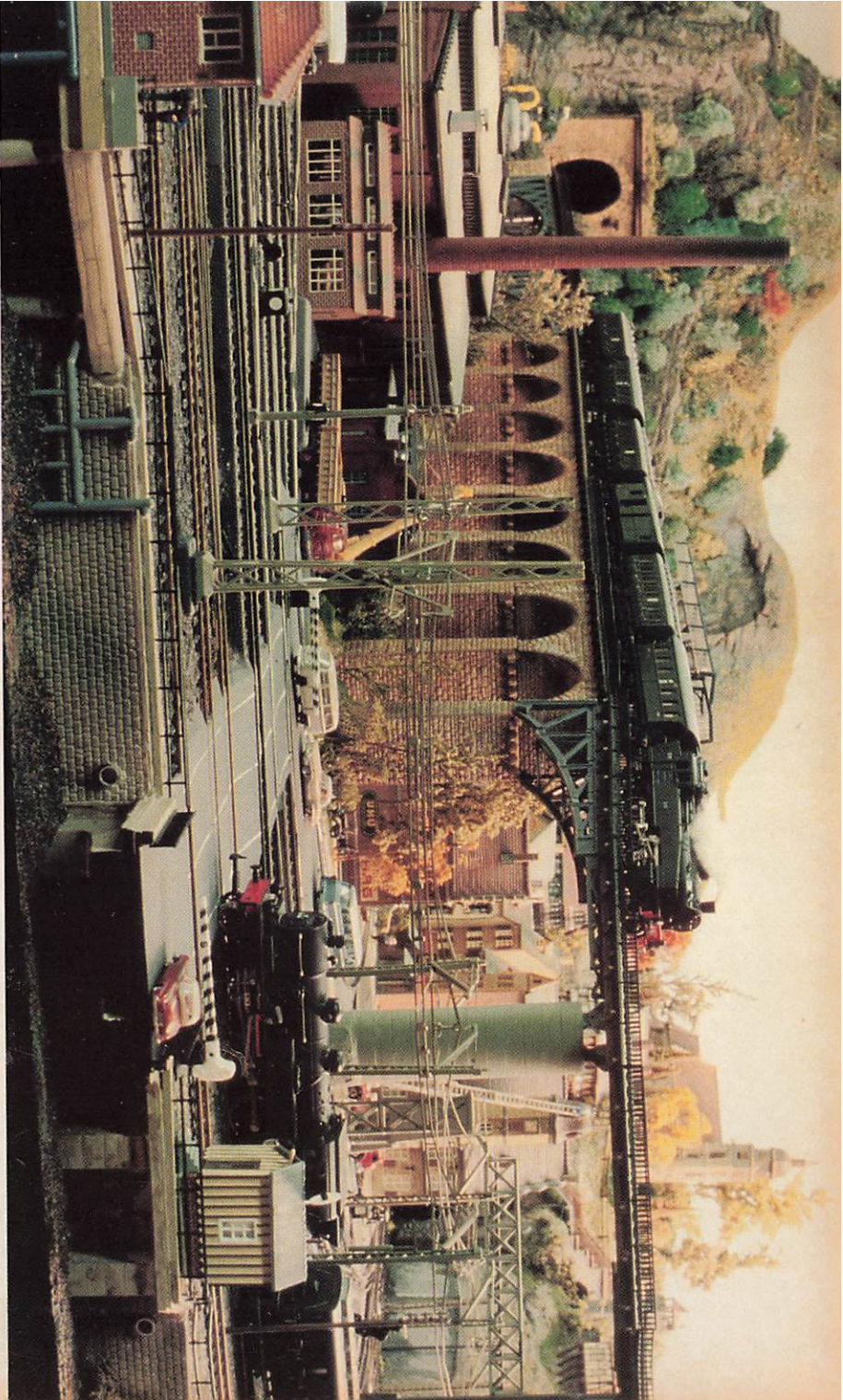
RIGHT: Harper Goff had an opportunity to acquire a good deal of HO scale Märklin equipment and Faller buildings, along with French and Rivarossi American scale trains, while serving as art director for films being shot in Europe. After returning to California, he built a 15 x 21-foot layout in his garage with a distinct German character. His main interest involves developing realistic-looking scenes, not in sophisticated operation, and the track plan consists mostly of one loop climbing up and over the other. This scene, photographed by Harper, includes a typical European masonry bridge.

TRACKSIDE PHOTOS



Pelle Soeborg of Farum, Denmark, has always been interested in American railroads. In addition to painting and lettering the brass Dash 8-40C, SD60, and SD40-2 heading the freight drag at the left, he took this photo on what he calls his HO scale operating diorama. Pelle also finished the Front Range Models Geep 7 waiting on the sidetrack.

RIGHT: Out in west Texas on David Barrow's HO scale Cat Mountain & Santa Fe Ry., the Mesa enginehouse services diesel power for yard and local freight assignments. Like most places in David's layout, Mesa is a good spot to watch locomotives come and go and to see railroaders at work. David's friend John Urban used Pikestuff and Diamond Scale kits and components to construct the engine terminal's structures, adding detail parts to the scene; Andy Sperandio of the MODEL RAILROADER staff took the photo.





Even though he doesn't think the style suits the locomotive configuration well, Bruce Rogers of New Plymouth, New Zealand, painted his Rail Power Products SD60M diesel in the Burlington Northern's new green, white, and black paint scheme. Combined with an Oakway Leasing SD60, the diesel heads an empty coal drag that's bound for the Powder River Basin and Mobil Coal Co.'s Caballo Rojo mine. Bruce took the photo on his Montana Rail Link layout.



Kenneth Ehlers took this shot on his HO_{N3} Pandora & San Miguel RR, a nicely detailed 10 x 23-foot layout. We like the subtle weathering on the locomotive that lets us see the detail. The weed clumps and the way the station is worked into its realistically uneven site are also eye-catching. Ken built the station from a Builders In Scale kit.

TRACKSIDE PHOTOS

We welcome your contributions to Trackside Photos. Only model railroad subjects are used. Color photos should be original transparencies, and black-and-white prints should be at least 5" x 7". Payment will be made upon publication.



On Carl Cascone's HO scale Kanawha Creek Ry., no. 18, a Mantua 0-4-0 yard goat, eases over the Main St. crossing while local traffic impatiently waits. The town structures are made from modified and weathered plastic and polyester kits. Carl used water putty over cardboard for the streets, which he then painted a combination of gray and buff. Pastel chalks nicely simulate road grime. Carl also took the picture.



Hans Wolfram Nicolaus of Hamm, Germany, posed this HO scale Atlas Alco RS-1 switcher and Athearn gondola, both of which he painted and weathered with acrylic paints, on a deck girder bridge over Nico Creek before exposing this picture. The name of the creek is derived from Hans' own nickname. He used Faller abutments, but the span was scratchbuilt. Hans has set it on a 19½ x 31½-inch module that he skillfully constructed with a lightweight frame which, in turn, is reinforced by the plywood riverbed.



Passengers are milling around on the platform waiting for a train, so the work crew had better get their rig out of the way very soon. Ron Harmon, who took the photo, constructed a 2 x 8-foot HO diorama of the Chicago & North Western and Milwaukee Road station and crossing in Slater, Iowa, for that town's centennial in 1989. Built to match the 77-degree track crossing angle, the station has Grandt Line windows and doors and is built with Kappler basswood scale lumber.



DEPOT MODEL CONTEST

A special depot model contest will be held in conjunction with the National Model Railroad Association's national convention, to be held in Columbus, August 1-8. The contest will be open to all builders, with models judged and prizes awarded in separate categories for NMRA members and nonmembers. The contest rules are:

- The model may be constructed in any scale as a single structure or as part of a diorama.

- The model must be the work of the entrant, but models may be entered on behalf of the builder by another convention attendee.

- The model must be displayed in Columbus during the NMRA national convention for judging purposes.

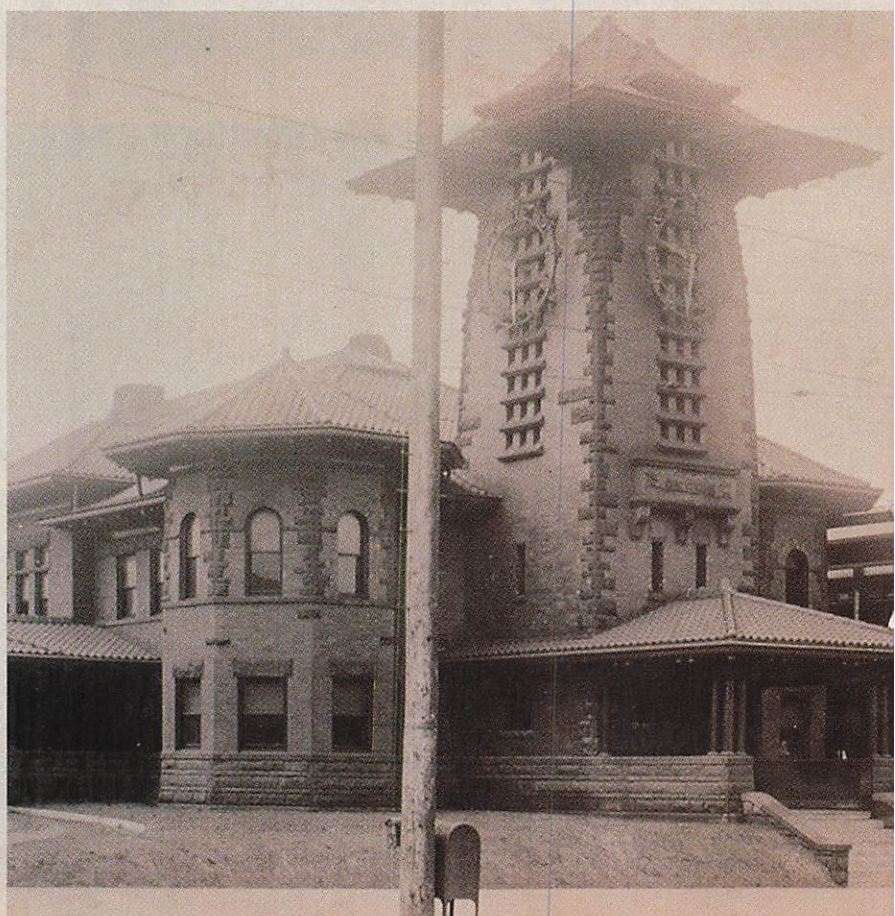
- A special open entry class will be available for professional model builders, architects, and students, as well as those who aren't members of the NMRA.

- Models will be on public display during the convention.

- The Volunteers of America would like to display the winning model in the depot for a period of time to be agreed on by the winner and their organization.

- Judging will be done by representatives of Neuenschwander & Pheneger Inc., the Volunteers of America, and the Columbus Landmarks Foundation.

- First, second, and third prizes will be presented to the winners in both categories. A special print will be given to all entrants.



COLUMBUS, OHIO
AUGUST 1-8, 1992

Toledo & Ohio Central Ry. Columbus, Ohio, depot

A passenger terminal suitable for the state capital

BY JIM HEDIGER

THE Toledo & Ohio Central Ry. was built in the 1880s to tap the coalfields of West Virginia. Its main line ran southeasterly across Ohio from Toledo, through Columbus, to the Ohio River at Point Pleasant and on to Charleston, W. Va., and the coalfields. This unique station was built at 379 W. Broad St. in 1895 to serve the state capital at Columbus.

Initially, the tracks serving the station were all at ground level, with the Broad St. grade crossing at the north end. As automobile traffic grew, waiting for trains became a more serious traffic problem. In 1910, a grade separation project elevated the tracks and lowered Broad St. to solve the problem.

STATION'S EARLY YEARS

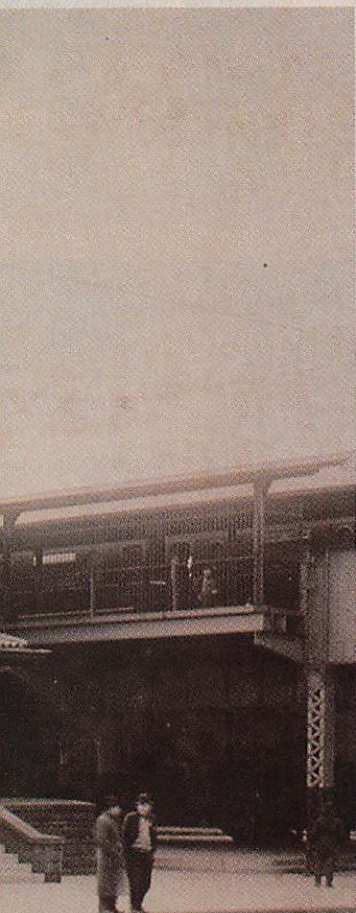
The station was designed by the architectural team of Yost & Packard. This firm was well known for its other central Ohio landmarks, which included the former Ohio State University Armory, the Chittenden Hotel, and the Broad Street Methodist Church. The building's central tower gives it a distinctly oriental flavor, but historians believe the design owes more to French

and Swiss feudal styles. Large clockfaces graced three sides of the tower during its first decade, providing an easy reference for travelers. These clocks and their mechanisms were removed around 1910.

On November 10, 1910, a devastating fire burned the roof off the building. This damage was quickly repaired so the structure could resume its normal functions. At the time of the fire, a deck and ramp were under construction to serve the elevated right-of-way. The ramp began on the east side and curved up and around behind the building to provide access from Broad St. to the tracks for both passengers and freight.

Another disaster struck the depot on March 25, 1913, when a major flood brought the Scioto River over its banks. Hundreds of people lost their lives as the water and debris flowed west along Broad St. A small brass plaque on the side of the station's balcony stairway marks the high-water mark in the grand lobby.

The depot continued to serve as a major transportation terminal after the T&OC became part of the New York Central in 1910. Old-timers tell of recruits boarding troop trains at the onset



Top left: This hand-colored 1909 postcard view shows the T&OC depot in its original configuration with a level grade crossing at Broad Street. The main building had a full tile roof and a matching signal tower or passenger shelter west of the tracks.

Left: This photo from the Ohio Historical Society shows the new viaduct shortly after the grade separation and high-level platforms were completed. Note the wooden passenger cars. Evidently the interesting clocks were not replaced on the central tower after a fire destroyed most of the station's roof in November 1910.

CONSTRUCTION DETAILS

Not to scale

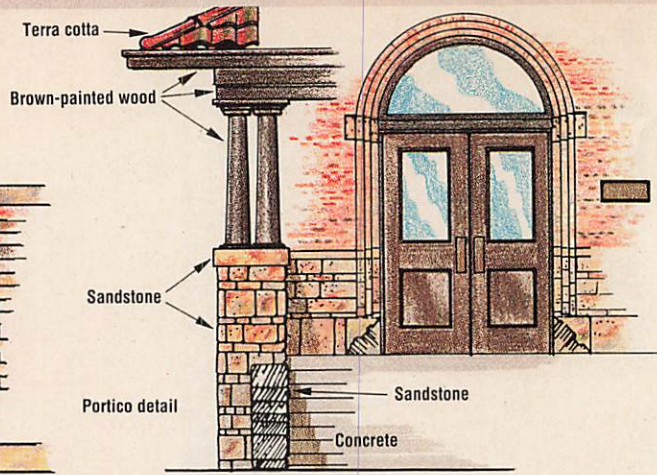
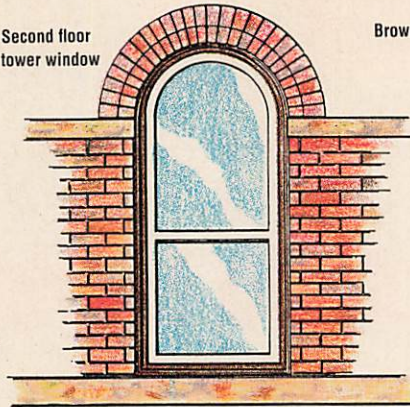


Exposed decorative roof rafters



Cornice (east side)

Second floor tower window



Terra cotta

Brown-painted wood

Sandstone

Portico detail

Sandstone

Concrete

Right: All the depot walls are made of locally produced brick with carved sandstone trim, including four small gargoyles at the corners of the clock tower.

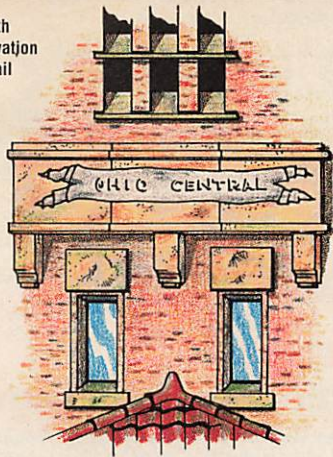


Above: After nearly a full century of service and several restorations, the depot remains in remarkable shape. Its mixture of brick, carved sandstone trim, and a limestone foundation will provide some interesting modeling challenges.

Right: The east side of the depot has lost the canopy that once covered its side entrance, but is otherwise unchanged.



North
elevation
detail



of World War I and veterans returning to victory parades. In the years before air travel, Ohio State University's football teams boarded trains here, heading for their away games with all the hoopla and cheering the Buckeye band and cheerleaders could muster.

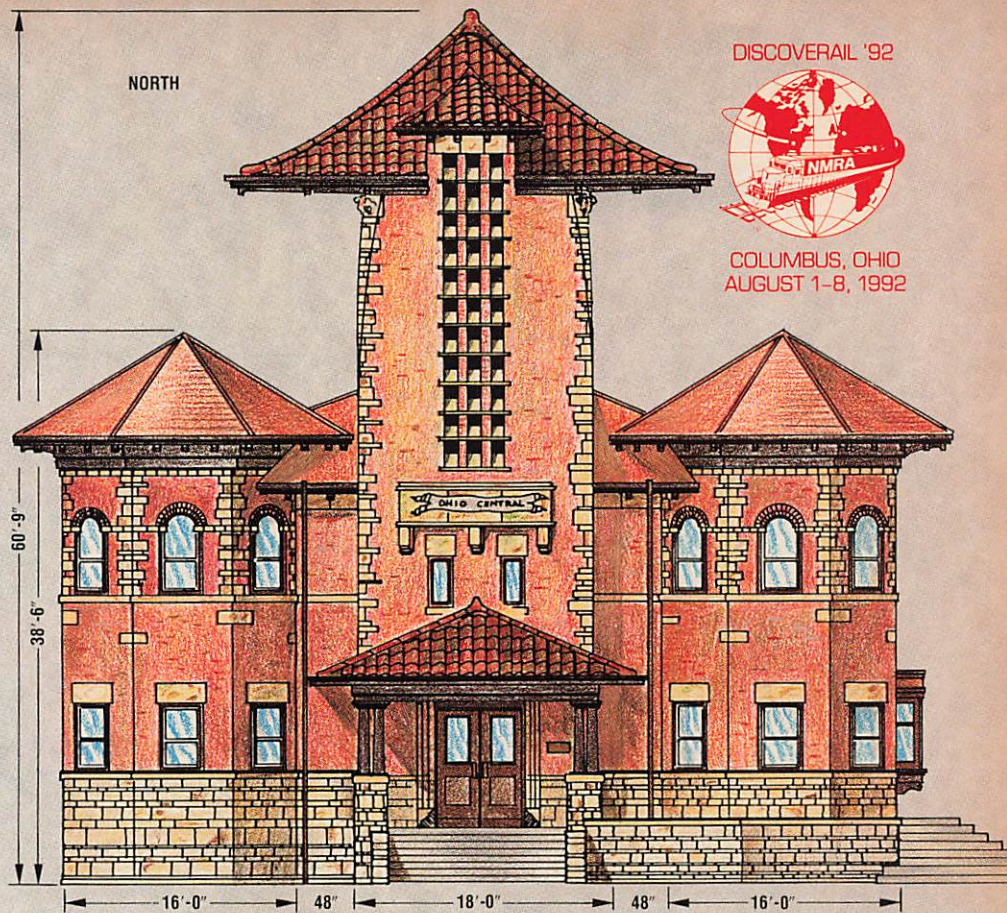
NEW USES AND RESTORATION

In the late 1920s, the NYC moved its passenger operations to Union Station on N. High St. About the time the Broad St. station became expendable, the Volunteers of America, a nonprofit social-service organization, was looking for a new home. The NYC rented the station to the VOA for \$1 the first year and then sold the building to the group in 1930.

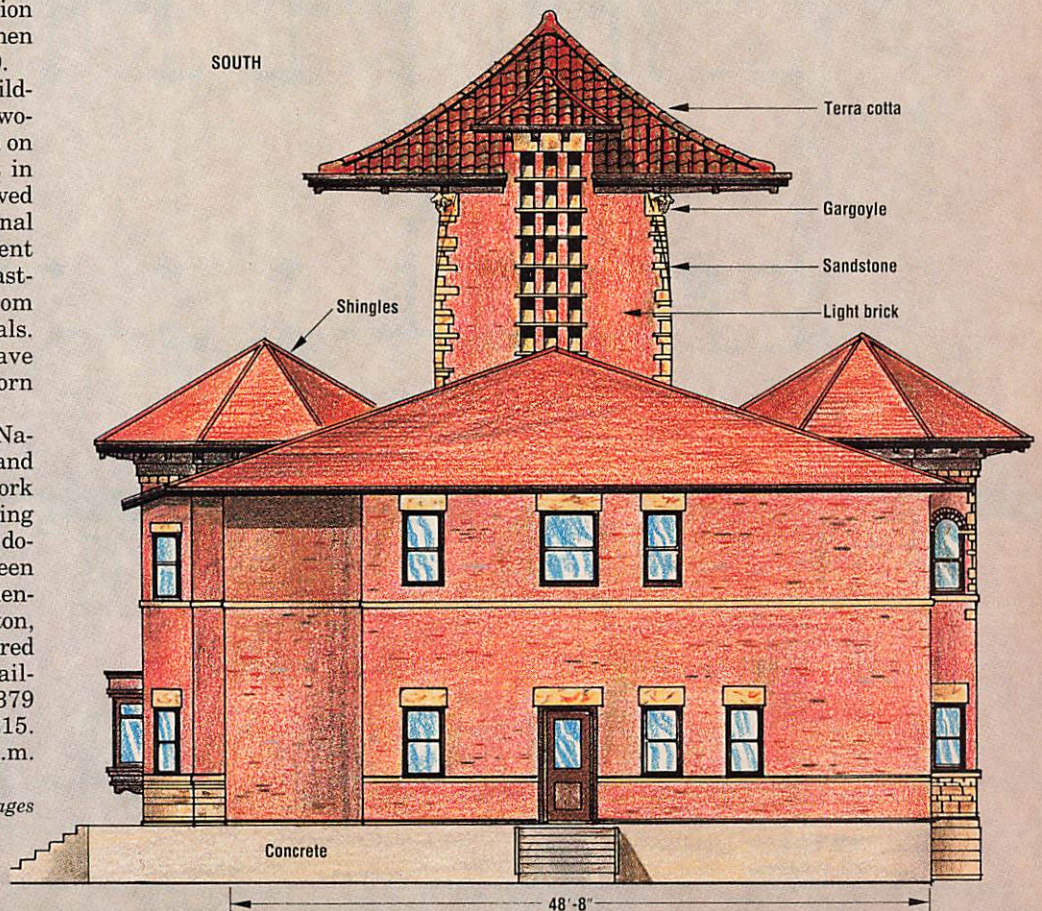
Floodwaters struck the historic building a second time in 1959, and a two-alarm blaze burned the roof off again on January 20, 1975. The wood arches in the barrel-vaulted grand lobby survived the fire and were restored. The original skylight was replaced with fluorescent lights, and new bas-relief plaster castings were made from molds taken from the remaining undamaged originals. Several damaged marble panels have been replaced, and new carvings adorn the train bulletin boards.

The station is now listed on the National Register of Historic Places, and restoration continues. Much of the work has been subsidized with funds coming from insurance, federal grants, and donations. Restoration is being overseen by the architectural firm of Neuen-schwander & Pheneger, of Worthington, Ohio, which prepared the plans featured here. Large prints (21" x 32") are available for \$20 per set from the VOA, 379 W. Broad St., Columbus, OH 43215. Visitors are welcome between 8 a.m. and 5 p.m. weekdays. ☐

More plans on following pages



Ratio 1:160 N scale



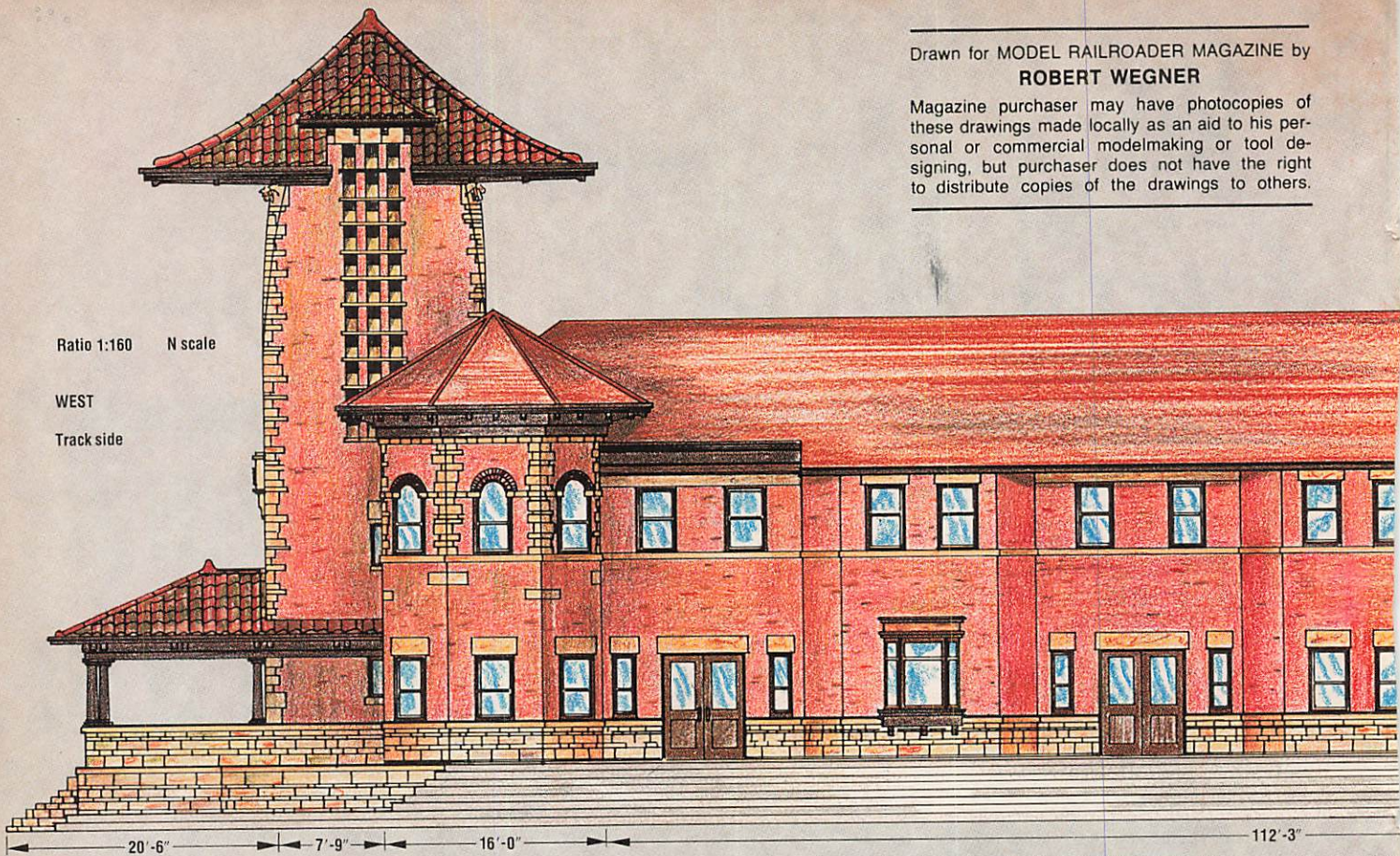
Drawn for MODEL RAILROADER MAGAZINE by
ROBERT WEGNER

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Ratio 1:160 N scale

WEST

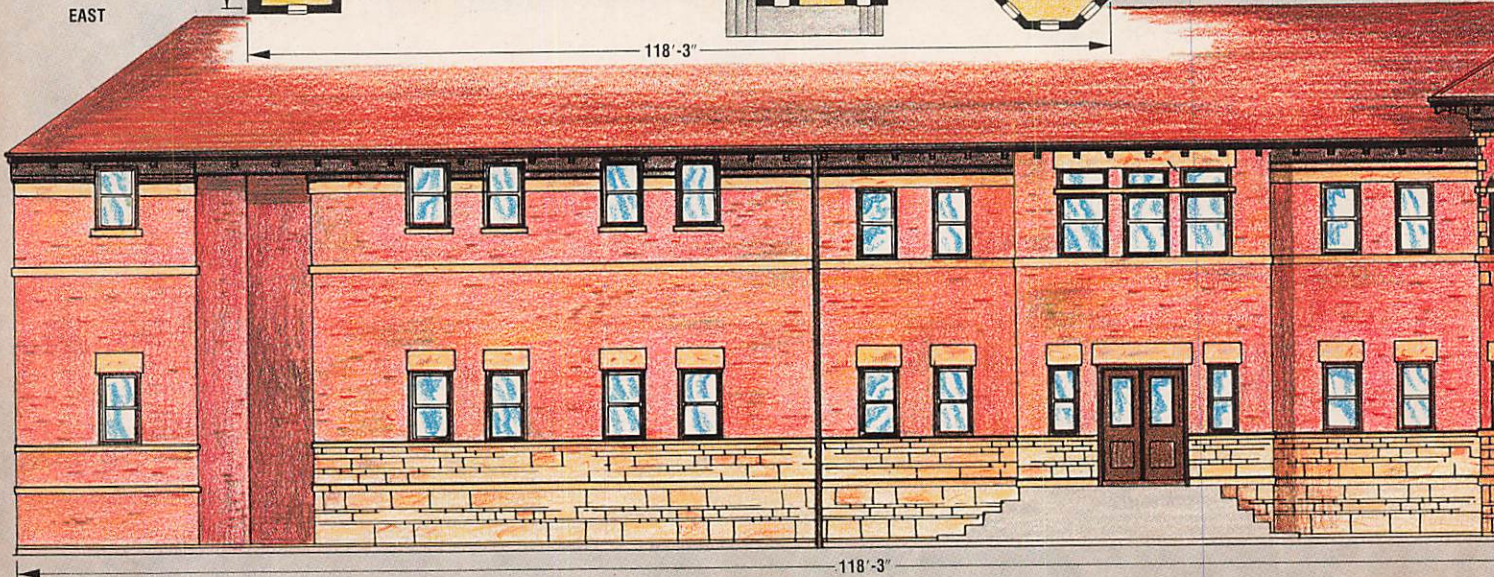
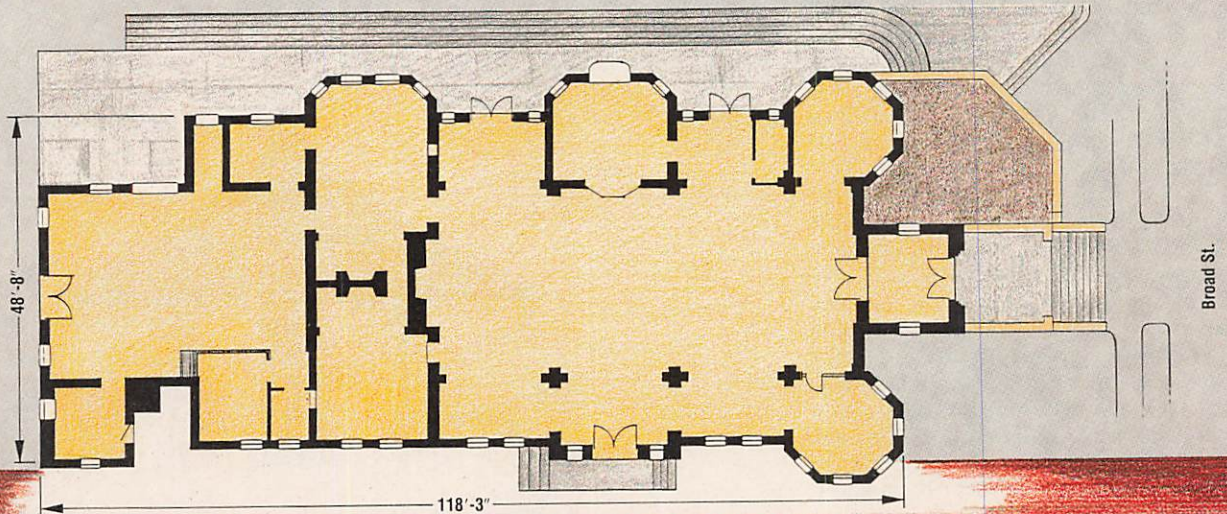
Track side



FLOOR PLAN
 Ratio 1:320
 Half N scale



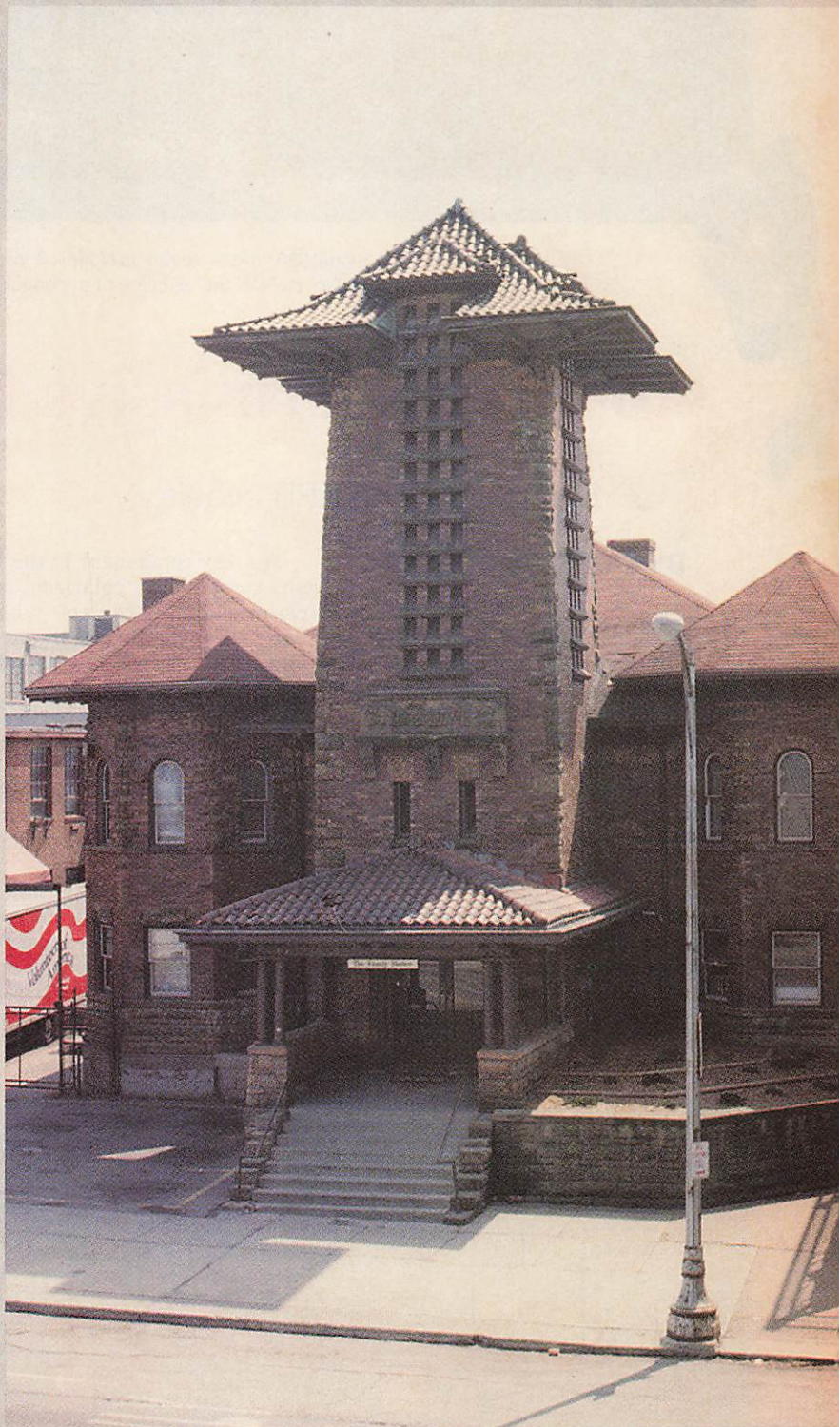
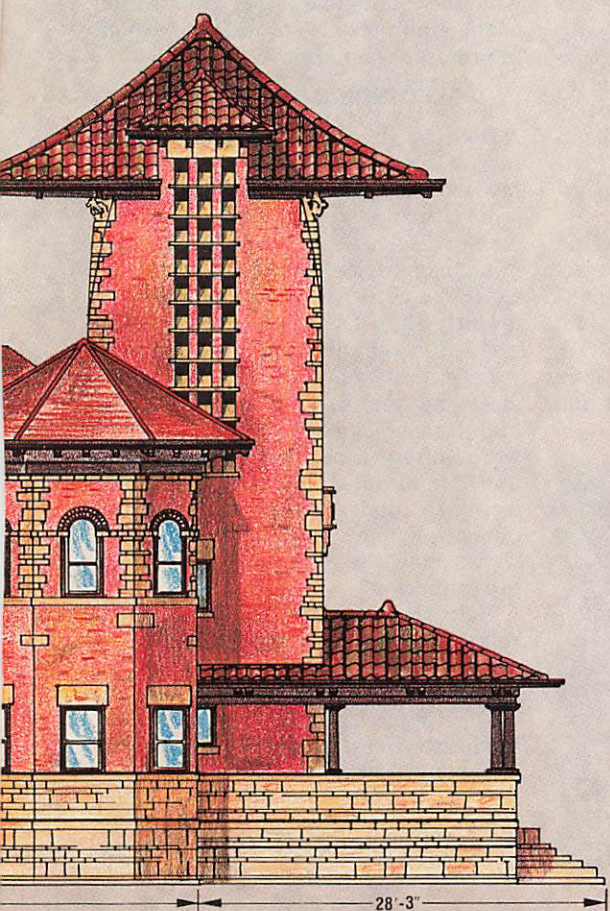
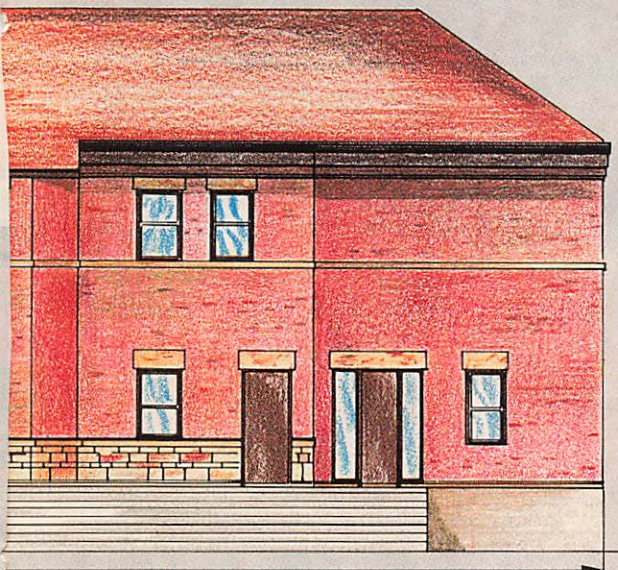
EAST



DISCOVERAIL '92



COLUMBUS, OHIO
AUGUST 1-8, 1992



In this 1977 photo, a new shingle roof covers the 1975 fire damage while the tower and front canopy still have their original tile roofing.



Jay S. Boggess

Signal 383 "drops" to red as Norfolk & Western no. 6204 rumbles past. This installment of our signaling series covers the circuits that control signal displays and protect opposing train movements.

Absolute-Permissive Block signals: 3

Signal logic and APB circuitry

BY JAY S. BOGGESS

THE Signal Logic Board or SLB is the next unit in the Absolute-Permissive Block signal system. Part 1 of this series in the November 1991 MODEL RAILROADER described the overall operation of the prototype APB system, and part 2 in the December 1991 MR covered the design and construction of the APB Detector circuit.

HD RELAY

The SLB provides the basic red-yellow-green signal protection for following movements, trains going in the same direction. Figure 1 presents a simplified version of the prototype signal circuit.

The key component is the HD relay, an example of a "polarized" relay. This closes one set of contacts when current flows through the coil in one direction and closes a different set of contacts when current flows in the opposite direction. The HD relay contacts are connected to their respective signals so that the signal will display:

Green if normally energized, indicating "proceed";

Yellow if reverse energized, indicating "approach";

Red if not energized at all, indicating "stop," or "stop and proceed at restricted speed" on a permissive signal.

The signal battery at signal 7 (not shown) supplies power to relay 5-HD, energizing it normally. If a train is in block 5, track relay 5-T drops out and

interrupts current through 5-HD. Signal 5 will then display red. In this situation the 5-HD contacts also *reverse the polarity* to 3-HD, setting signal 3 to yellow.

The same things may happen without a train in the block, if a line wire breaks, the signal battery dies, or whatever. This is another illustration of the omnipresence of fail-safe design in prototype signaling.

ELECTRONIC REALIZATION

Because the consequences of signal failure are much less severe in our models than on the prototype — HO scale passengers don't have lawyers! — we can dispense with some layers of redundancy in our model implementation. The SLB can work radically differently than the prototype HD relay and still accomplish the same result.

Let's first consider the SLB — our electronic realization of the HD relay and its associated wiring — as if it were simply a box with three inputs and four outputs. The inputs are RedIn, YellowIn, and AppIn, while the outputs are R, Y, G, and RedOut. Figure 2 shows how these inputs and outputs are connected.

Note the similarity to fig. 1. Track relay 3-T is replaced by Detector 3-T. If a train is in block 3-T, as in the first diagram of fig. 2, the Detector's output will be applied to two different SLBs. It's fed to AppIn of SLB5 to turn on the approach lighting of signal 5. If block 5-T isn't occupied, signal 5 displays green. The Detector output is also fed to RedIn of SLB3 to set signal 3 red for any train in block 1-T.

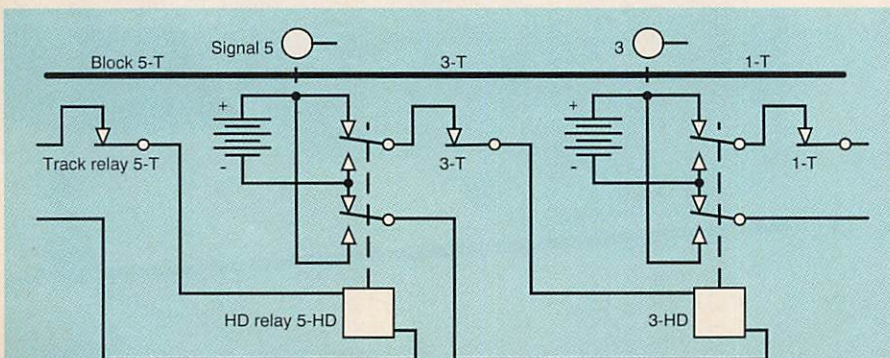


Fig. 1 HD RELAY CIRCUIT

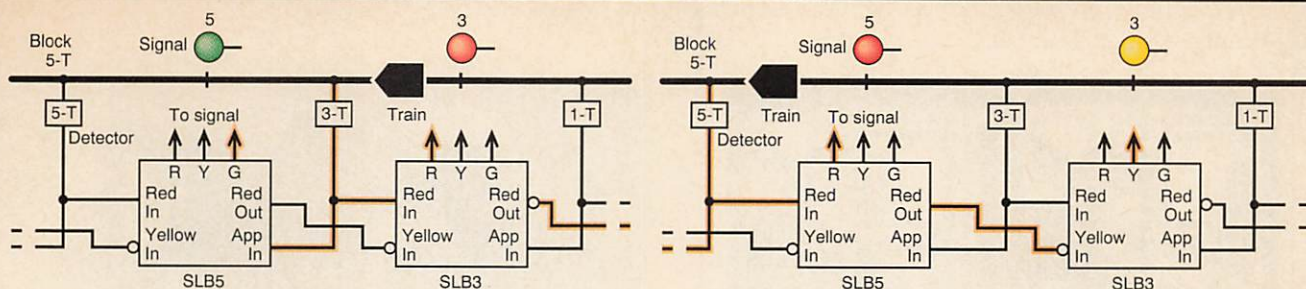


Fig. 2 SLB FUNCTION

The second diagram shows what happens after the train moves into block 5-T. Detector 5-T feeds to SLB5, driving it to display red on signal 5. The RedOut line is asserted whenever a signal is set red. The RedOut of SLB5 is fed to SLB3's YellowIn, driving it to display yellow on signal 3. That gives the two-block zone of protection behind the train from successive red, yellow, and green signals, as provided by the HD relay circuits. (Note that in the second diagram, signal 3 wouldn't actually be lit unless there was a train in block 1-T, causing Detector 1-T to feed the AppIn input of SLB3, and signal 5 wouldn't be lit until the train in 1-T entered 3-T.)

SLB DESIGN

To follow the explanation of my CMOS implementation of the Signal Logic Board, refer to the sidebar, "Basics of digital design," in part 2 of this series. The SLB went through a long and arduous development period. My original design used classic combinational logic and had six IC chips on a 4" x 4.5" printed-circuit board to control two signals. By using an interesting form of CMOS integrated circuit known as the "transmission gate," I was able to eliminate two chips and reduce the SLB to 3.5" x 3.5".

The transmission gate is the CMOS equivalent to the relay. Figure 3 is a diagram of a typical transmission gate. Each gate has a common pin, a "logic 1" pin, a "logic 0" pin, and a select pin. If the select pin is high (+12V), then the

1 pin is connected to the common. If it's low, then 0 is connected to the common. Transmission gates are bidirectional, meaning that current can flow in either direction through the gate. The current capacity is somewhat limited, but sufficient for our purposes.

The chip I used, the 4053, is essentially three transmission gates. Refer to fig. 4 to see how this is applied to the Signal Logic Board-Mark II. Gate TG1 controls the approach lighting of the signal. With the 10K Ω resistor taking the select pin (11) to ground, the common pin (14) is at ground as well, and thus all three signal outputs will be off regardless of the other TGs. A positive voltage to the approach-lighting pin (AppIn) will connect the positive supply to the common of TG1, providing 12V to the next TG in line, TG2. The 470 Ω resistor R6 limits the current output to the red, yellow, and green outputs to a value safe for LEDs.

Gate TG2 controls whether the signal is red or "something else." The NOR gates IC2A and IC2B take the RedIn high and low inputs, OR them together, and apply their output to the select pin of TG2. In plain English, if RedIn low is grounded ("low assertion") or RedIn high is at +12V ("high assertion"), NOR gate pin 3 goes to ground,

the output pin RedOut goes low, and TG2 switches to feed the +12V from the 470 Ω resistor to the red signal output, thus lighting the signal at stop. If, however, pin 3 is high, we proceed to the "something else" stage.

YELLOW OR GREEN?

Of course we have only two possibilities for "something else": the signal will be yellow or green. Another NOR gate arrangement, identical to the TG2 stage, handles the YellowIn high and low inputs. If either is asserted, then NOR gate pin 10 will go low and TG3 switches so that the feed from TG2 goes to the yellow signal output. If no yellow inputs are asserted, then pin 10 will be high and the TG2 feed will be connected to the green signal output. The 1M Ω resistor R7 and 1 μ F capacitor C1 provide a 1-second delay between the assertion of the input and the changing of the signal.

You may wonder why I provided both "high" and "low" inputs. Well, when I built my first SLB in 1982, I began with a concept by fellow club member Scott Given, and I wasn't sure how everything was going to work out. I wasn't sure how many inputs would be needed to drive a signal red or yellow, or whether they'd be low or high. So I made the SLB as flexible as possible and provided high

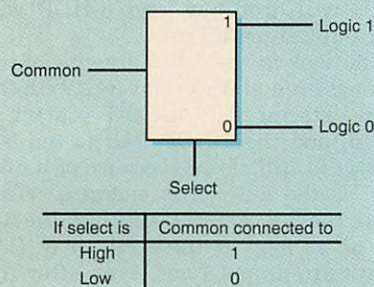


Fig. 3 TRANSMISSION GATE

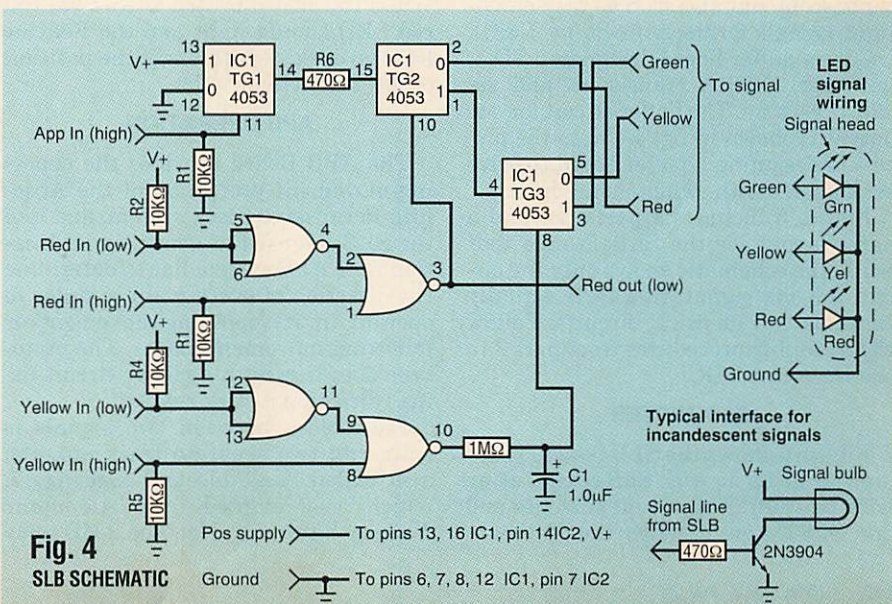
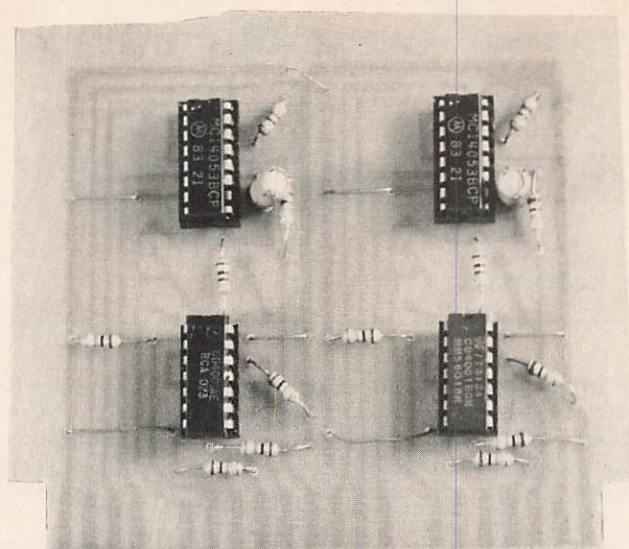
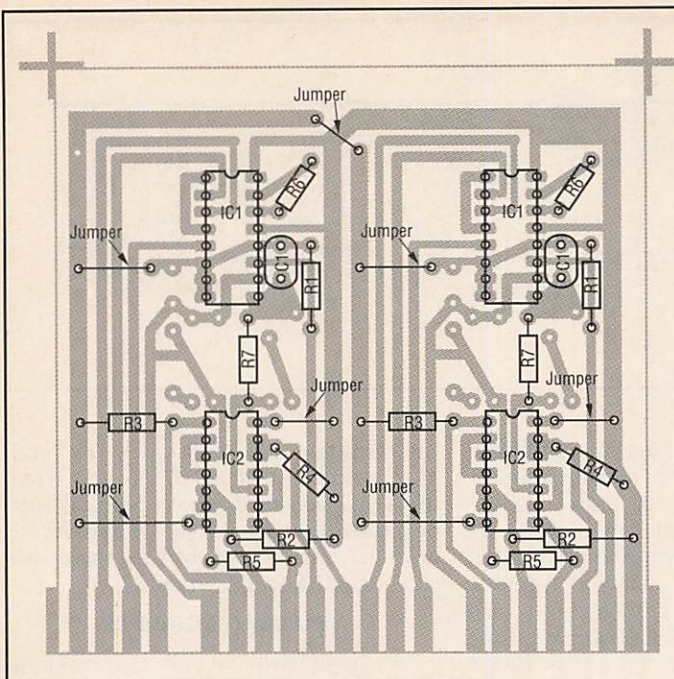


Fig. 4

SLB SCHEMATIC



and low inputs. This way, if there are, say, three high lines to drive the signal to red, they all could be connected to the RedIn high input with 1N914 diodes.

Overall, the SLB circuit is a cost-effective way to model the priority-logic characteristics of the prototype HD relay. To review its operation:

- If neither of the red or yellow inputs is asserted, the signal is green.

- A yellow input gives a yellow signal.

- A red input gives a red signal.

- If the red and yellow inputs are asserted, the signal is red and the RedOut output is asserted, telling the next SLB to set its signal yellow, "approach," in advance of the red.

- Finally, the AppIn section provides a way to turn all three signal outputs on and off for approach lighting without affecting the RedOut output.

If you use LED signals, they can be connected directly to the SLB. For incandescent signals (such as the searchlight signals formerly made by N&G), we use a buffer board designated SD-1, with six 2N3904 transistors and six 470Ω resistors. The buffer circuit for one output is shown in fig. 4. I'm in the process of designing a buffer board to drive semaphores with switch-motor drives.

Figure 5 includes a parts list and a parts layout for the SLB. Notice that while the schematic shows only the circuit for one signal, this PCB actually contains two identical circuits. Follow the assembly procedures from part 2 in the December MR.

SLB TESTER

Figure 6 shows the SLB tester. There are four LEDs for each SLB circuit, along with two DPDT center-off switches and one SPST switch. With the YellowIn

SLB parts

This board includes two circuits and requires two of each listed part.

| Symbol | Description | Digi-Key part no. |
|---------------|---|-------------------|
| — | 22AWG solid wire for jumpers | — |
| S01 | 16-pin IC socket | A9376 |
| S02 | 14-pin IC socket | A9314 |
| R1 through R5 | 10KΩ resistors* (brown-black-orange) | 10KQ |
| R6 | 470Ω resistors (yellow-violet-brown) | 470Q |
| R7 | 1MΩ resistors (brown-black-green) | 1.0MQ |
| C1 | 1.0μF, 16WVDC (or greater) electrolytic capacitor | P6260 |
| IC1 | 4053 CMOS triple 1-of-2 switch | CD4053 |
| IC2 | 4001 CMOS quad NOR gate | CD4001 |

* All resistors 1/4W, 5 percent

Fig. 5 SIGNAL LOGIC BOARD

and RedIn switches centered and the AppIn switch off, the RedOut LED should light. When the AppIn switch is turned on, the green LED should light. Throwing the YellowIn switch to "High Assertion" or "Low Assertion," the yellow LED should light and the green should go out after a 2-second delay. When the RedIn switch is thrown, the red LED should light and the RedOut LED go dark, regardless of the position of the YellowIn switch.

APB OPERATION

The APB Board provides the opposing-movement protection of the Absolute-Permissive Block system, and like the SLB it's used at every signal location. The APB system has to determine the direction of every train in order to operate in its opposing-movement or following-movement modes. The prototype does this with a clever circuit using "directional stick relays."

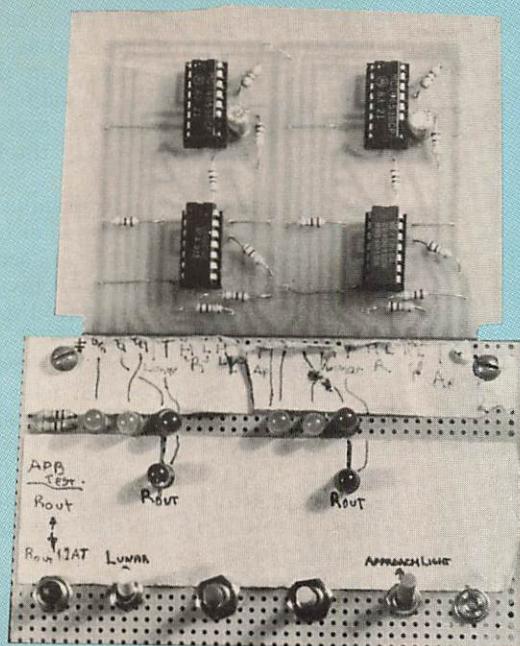
Each block between two signals is split into two separate track circuits, also called "half blocks." (See fig. 7, which was adapted from *Automatic Railway Signaling*.) Note the 3-HD relay

controlled by the 6-T and 3-T track circuits, and how the 3-HDP coil is controlled by the 3-HD relay. The 3-HDP is a special time-delay relay. Its contacts have a 2-second delay on pickup or dropout after the 3-HDP coil has been energized or de-energized.

Suppose a westbound train is approaching the boundary that's between half blocks 4-T and 3-T. Relays 3-HD and 3-HDP are picked up, and relay 3-S (the "stick relay") is dropped out because the 3-T, 3-HD, and 3-S contacts are open. As the train crosses the gaps and shunts the 3-T track circuit, relay 3-HD will drop out, and 3-HDP will drop out 2 seconds later.

Now look at the detail drawing of the contacts around stick relay 3-S. With the train entering 3-T, the 3-T contact is closed, and the 3-HDP feed to the 3-T contact is still closed (because of its delay), so the 3-S coil is energized. This closes the 3-S contact, "sticking" the 3-S coil on as long as the 3-HD or 3-HDP relays are dropped out, even after the delay expires on 3-HDP.

If an eastbound train approaches, the 3-HDP contact would be dropped out by



SLB Tester parts

1N914 diodes (same as used in detector board), 10
Green LEDs, 2
Yellow LEDs, 2
Red LEDs, 4
DPDT center-off toggle switches, 2
SPST or SPDT toggle switch, 1
470Ω, 1/4W, 5 percent resistors, 2
22-pin edgeboard connector, 1
perfboard
wire

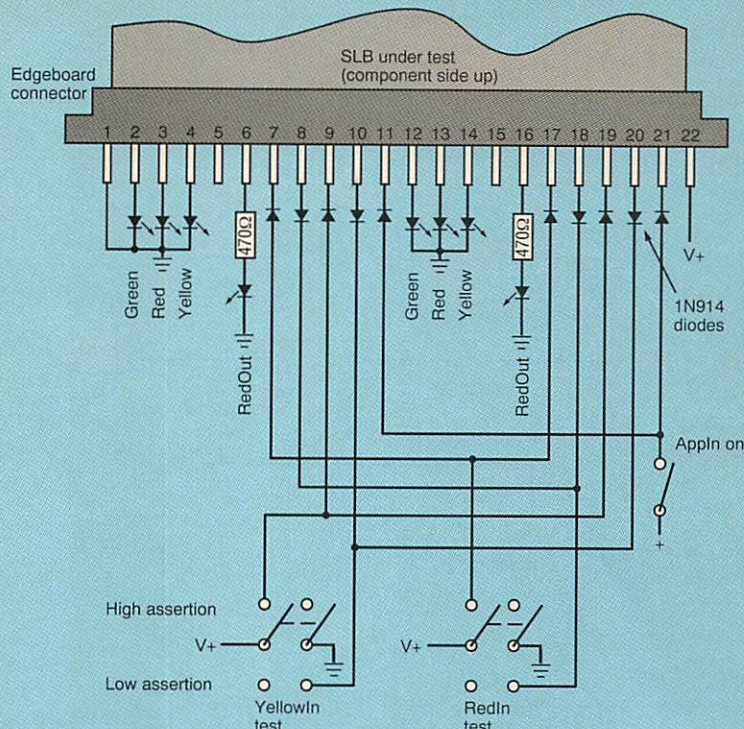


Fig. 6 SLB TESTER

the 6-T track relay long before the train reached the 3-T circuit, so 3-S would *not* pick up when the 3-T half block was occupied. Thus the 3-S relay is energized for westbound trains in block 6-T/3-T, but isn't energized for eastbound traffic. This is how the system tells which way the trains are going and determines whether opposing- or following-movement protection will be provided.

TUMBLE-DOWN

Now look at fig. 8, a modification of fig. 1 with the two-pole contacts controlled by the HD relay split between the HDP contact and the S contact. The stick relay coils for each block as described above are not shown. When an eastbound train enters half block 5-T, the feed to 5-HD is broken. Notice the 5-HDP and 5-S contacts in the 3-HD circuit. When the 5-HD contact opens, signal 5 goes red and the 5-HDP relay drops out after a 2-second delay. Because 5-S picks up only for westbound trains, there is no longer a feed to the 3-HD relay, dropping it out. What happened at signal 5 will now occur at signal 3,

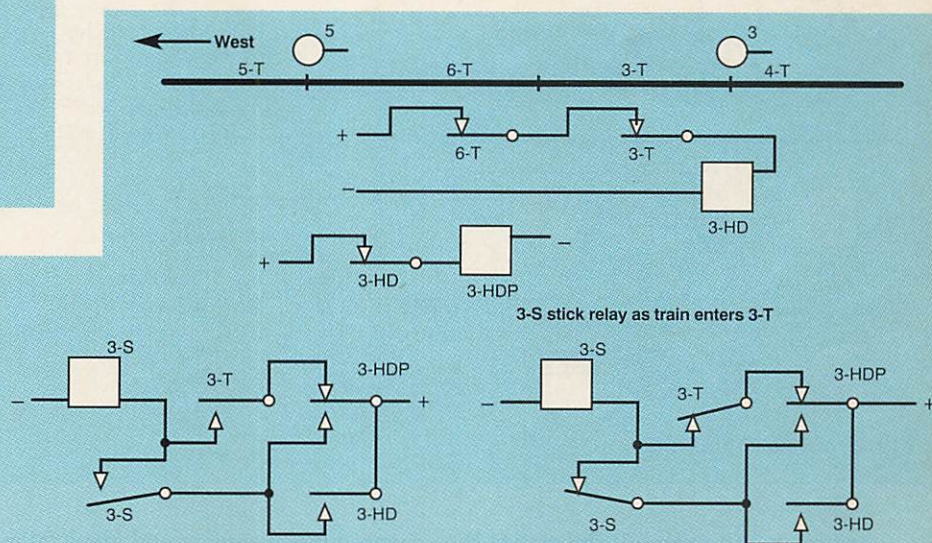


Fig. 7 DIRECTIONAL STICK RELAY

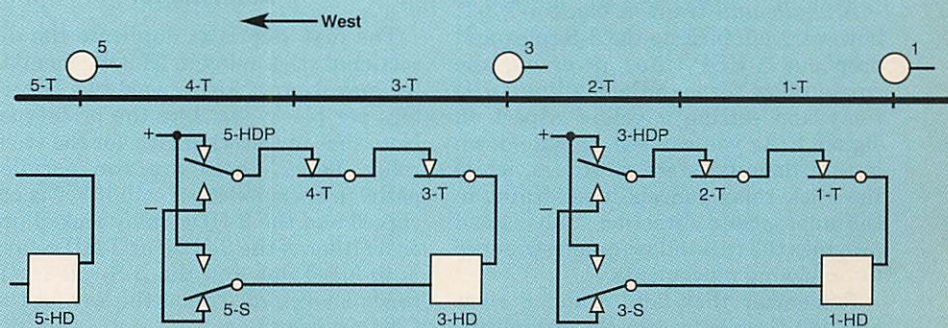


Fig. 8 TUMBLE-DOWN

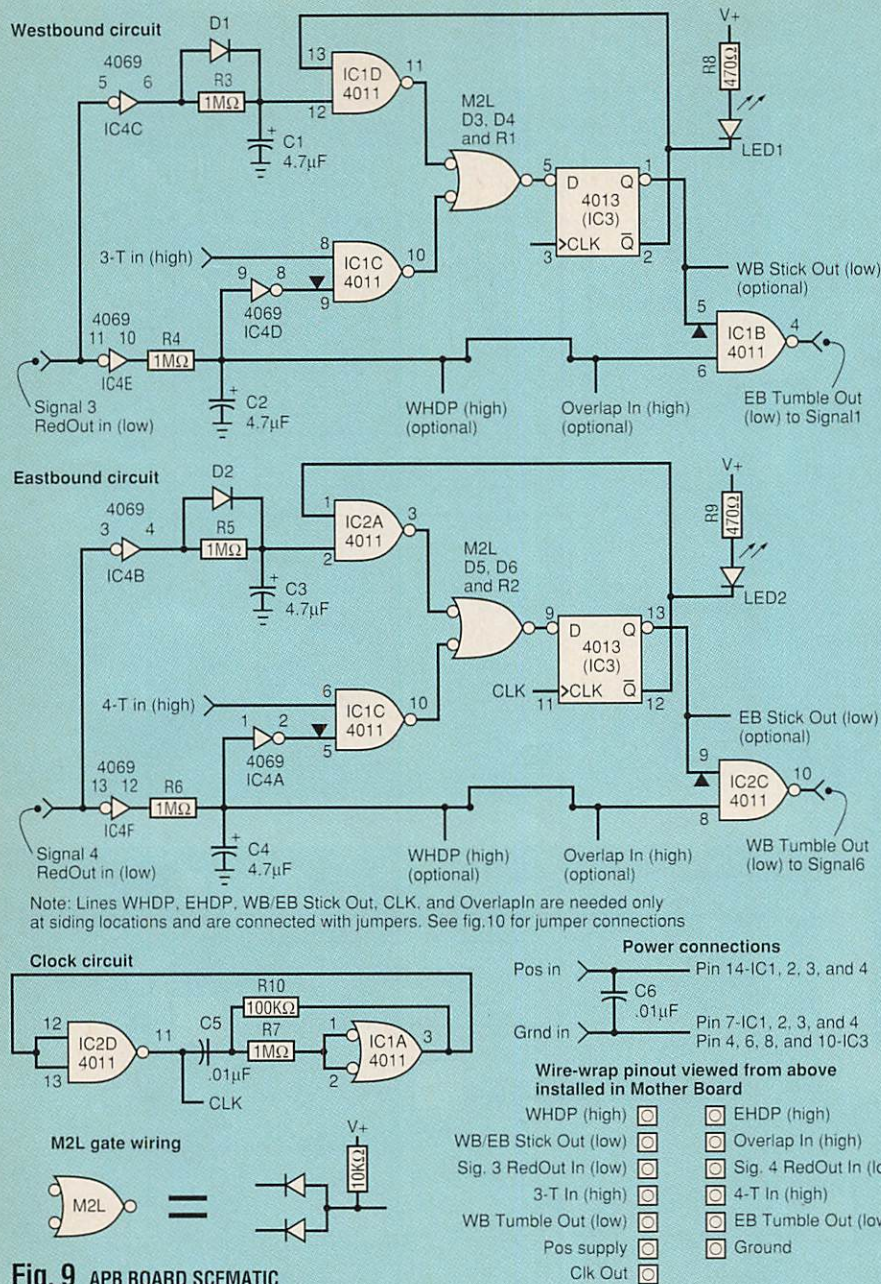


Fig. 9 APB BOARD SCHEMATIC

and so on and so on, all the way to the next siding. This is the tumble-down effect I described in part 1.

A westbound train in block 4-T/3-T, however, will pick up the 3-S relay and drop out 3-HDP, thus reversing the current flow through the trailing 1-HD relay and setting a yellow aspect on signal 1. As you can see, tumble-down is the "default" state of affairs, while the stick relay cancels it for trains in the appropriate direction and instead provides the red-yellow-green sequence for following movements.

Remember that figs. 7 and 8 show only the circuits for signals facing westbound trains. In fact, these circuits are duplicated for eastbound signals, giving the APB system the capability to protect

opposing movements and allow following movements at the same time.

APB BOARD

The first step is to duplicate the directional stick relay in CMOS. No matter how we try, we do need two Detectors per block, just like the prototype. Note that in the schematic for the stick relay, fig. 7, there are two parallel paths to energize the S coil: if 3-T is occupied and the 3-HDP relay picked up, or if either of the 3-HDP or 3-HD relays is dropped out and the 3-S coil is already energized. This is the key for the CMOS realization.

Instead of the stick relay we'll use a 4013 D-type flip-flop, but control it according to the two possible paths of the

prototype. Figure 9 is the schematic for the entire APB Board, which includes identical but independent APB circuits for each direction. For the purposes of explanation we'll concentrate on the westbound circuit. The signal and block numbers in fig. 9 are simply for ease of reference — they'd vary to suit the location of each APB Board.

The RedOut (low) input from signal 3 will go low, be "asserted," when either of the Detectors 6-T or 3-T is "occupied." Inverters IC4C and IC4E invert the RedOut input signal and feed it to two resistance-capacitance, "RC," delay networks. The RC network fed from inverter E provides a 2-second delay on pickup and dropout of the RedOut signal. The delayed signal is inverted again by IC4D and feeds the IC1C NAND gate, which, with the 3-T input, is analogous to the 3-T/3-HDP string of the prototype.

The RC network fed from inverter C also has a 2-second delay on dropout, but diode D1 makes it pick up instantaneously. This network feeds NAND gate IC1D, which is analogous to the 3-S/3-HD contact string of the prototype. The output of both NAND gates feeds into an M2L-logic OR gate, which then feeds into the D input of the 4013 flip-flop. Thus, NAND C will assert the D-type flip-flop when a westbound train picks up 3-T before 3-HDP drops out, and NAND D "sticks" the flip-flop as long as 3-T or 6-T is occupied. LED1 is normally lit, but will go out when the flip-flop is asserted, corresponding to the prototype situation of energizing the 3-S relay coil.

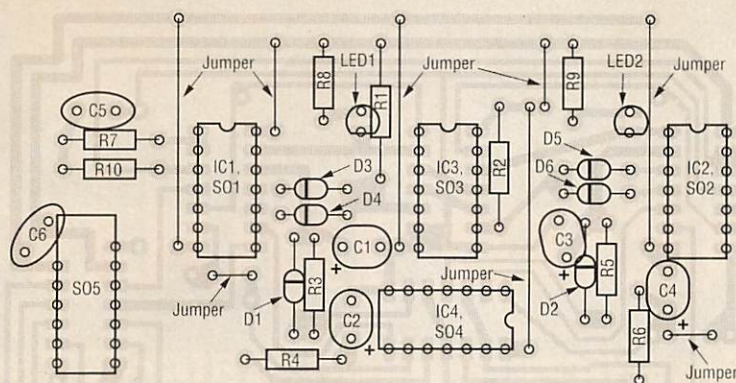
MODELING TUMBLE-DOWN

Now focus on the inputs and output of the IC1B NAND gate. There is one input from the "stick" circuit and another from the time-delayed RedOut signal. In a tumble-down situation, RedOut goes low, is inverted and delayed by 2 seconds, and then fed to IC1B. Since we have a positive-asserted RedOut and a negative-asserted westbound Stick output feeding a positive-input NAND gate (the little triangle on pin 5 reminds us of this discontinuity), we have: RedOut AND no EB (eastbound) Stick = EB TumbleOut (low).

Thus, the next signal down the line, signal 1, will be driven to stop and its RedOut line will go low. This will continue on to the next siding unless interrupted by the WB (westbound) stick signal at NAND B, giving us the absolute opposing-movement protection between sidings, yet allowing red-yellow-green protection for following movements.

Also on the APB Board (and usually quickly forgotten) is the clock for the D-type flip-flops. The clock consists of two NAND gates used as inverters, two resistors, and a capacitor. It oscillates at about 75 Hertz.

APB board component layout intermediate location



APB parts

| Symbol | Description | Digi-Key part no. |
|---------|--|-------------------|
| — | 22AWG solid wire for jumpers (use insulated wire where jumpers cross) | |
| S01-4 | 14-pin IC socket | A9314 |
| S05 | 16-pin wire-wrap socket | L8116 |
| R1-R2 | 10K Ω resistors* (brown-black-orange) | 10KQ |
| R3-R7 | 1M Ω resistors (brown-black-green) | 1.0MQ |
| R8-R9 | 470 Ω resistors (yellow-violet-brown) | 470Q |
| R10 | 100K Ω resistor (brown-black-yellow) | 100KQ |
| C1-C4 | 4.7 μ F, 16WVDC (or greater) electrolytic capacitor | P6247 |
| C5-C6 | 0.1 μ F, disk capacitor | P4525 |
| IC2 | 4001 CMOS quad NOR gate | CD4001 |
| C5-C6 | 4001 CMOS quad NOR gate | CD4001 |
| D1-D6 | 1N914 (1N4148) signal diodes | 1N4148 |
| LED1-2 | Red light-emitting diodes | P300 |
| IC1 | 4013 CMOS D-type flip-flop IC | CD4013BCN |
| IC2-IC3 | 4011 CMOS quad NAND gate ICs | CD4011BCN |
| IC4 | 4069 low-power hex inverter IC (JDR Micro-Electronics CD4069) | — |

* All resistors 1/4W, 5 percent

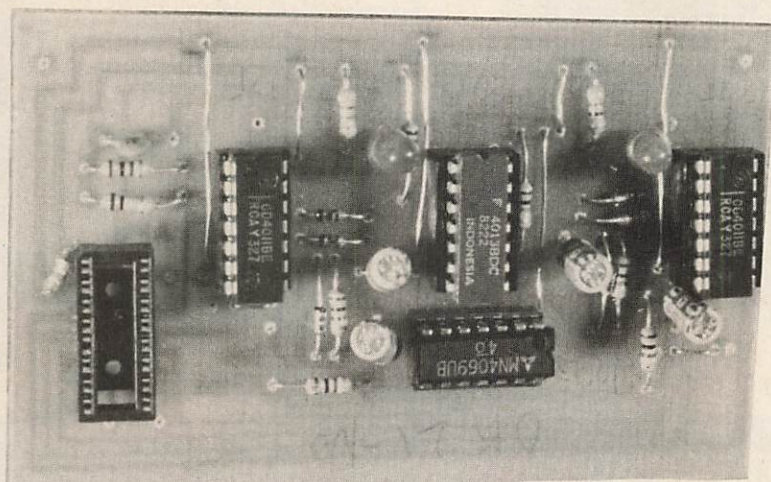
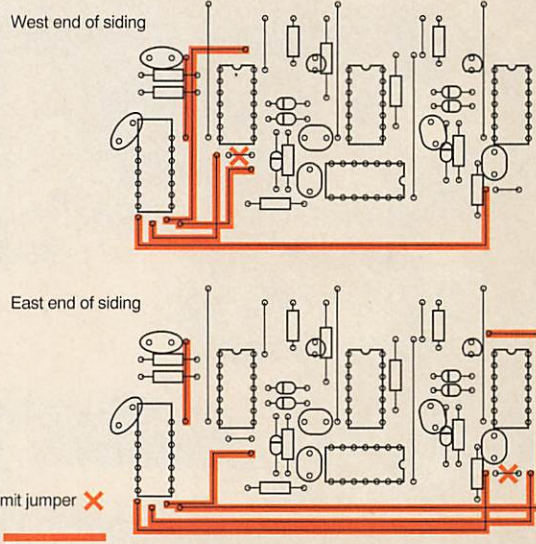


Fig. 10 APB BOARD

APB jumper connections



APB ASSEMBLY

Figure 10 includes the parts layout for the APB Board, the parts list, and diagrams for the connector and jumpers.

The APB Board uses a 16-pin wire-wrap socket, with 3 pins removed, to connect it to the Mother Board. In the pinout diagram in fig. 10, only 8 of the 12 pins are used for an intermediate signal location, controlling signals on single track between passing sidings. The other pins are reserved for signals at passing sidings and are used to pass information to the Double Approach/Overlap Board (coming next month).

The jumper diagram shows how to tailor the jumper wire connections to suit various situations. The main parts layout shows jumpers for a typical intermediate signal location, but follow the jumper diagram to build APB Boards for other locations.

APB TESTER

Figure 11 shows the APB Tester — I built mine as part of my SLB Tester. The APB Tester has two LEDs, one DPDT center-off switch, and a DIP header to plug into the APB socket. When the switch is thrown to the Red-Out position, simulating a tumble-down situation, the TumbleOut LED will go out after a 2-second delay. When the switch is thrown to the Red-Out and 1T position, simulating a stick condition, the Stick LEDs on the APB Board will go out and the TumbleOut LED will stay on.

We're into the home stretch now. In the February MODEL RAILROADER we'll complete the basic circuit elements of the APB system with the Double-Approach/Overlap and Mother Boards, and in March we'll see how to install APB signaling on your layout. ♣

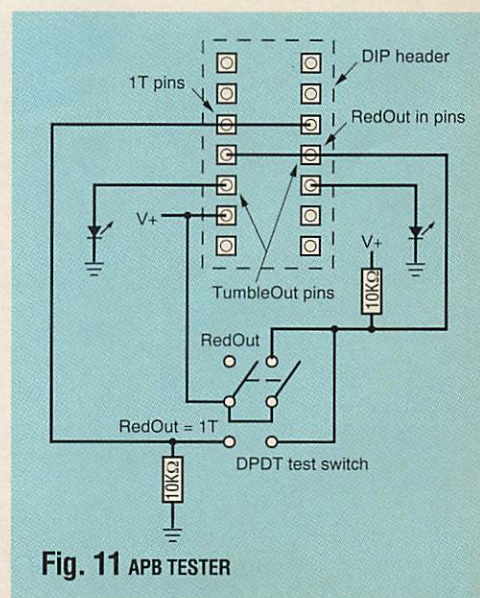
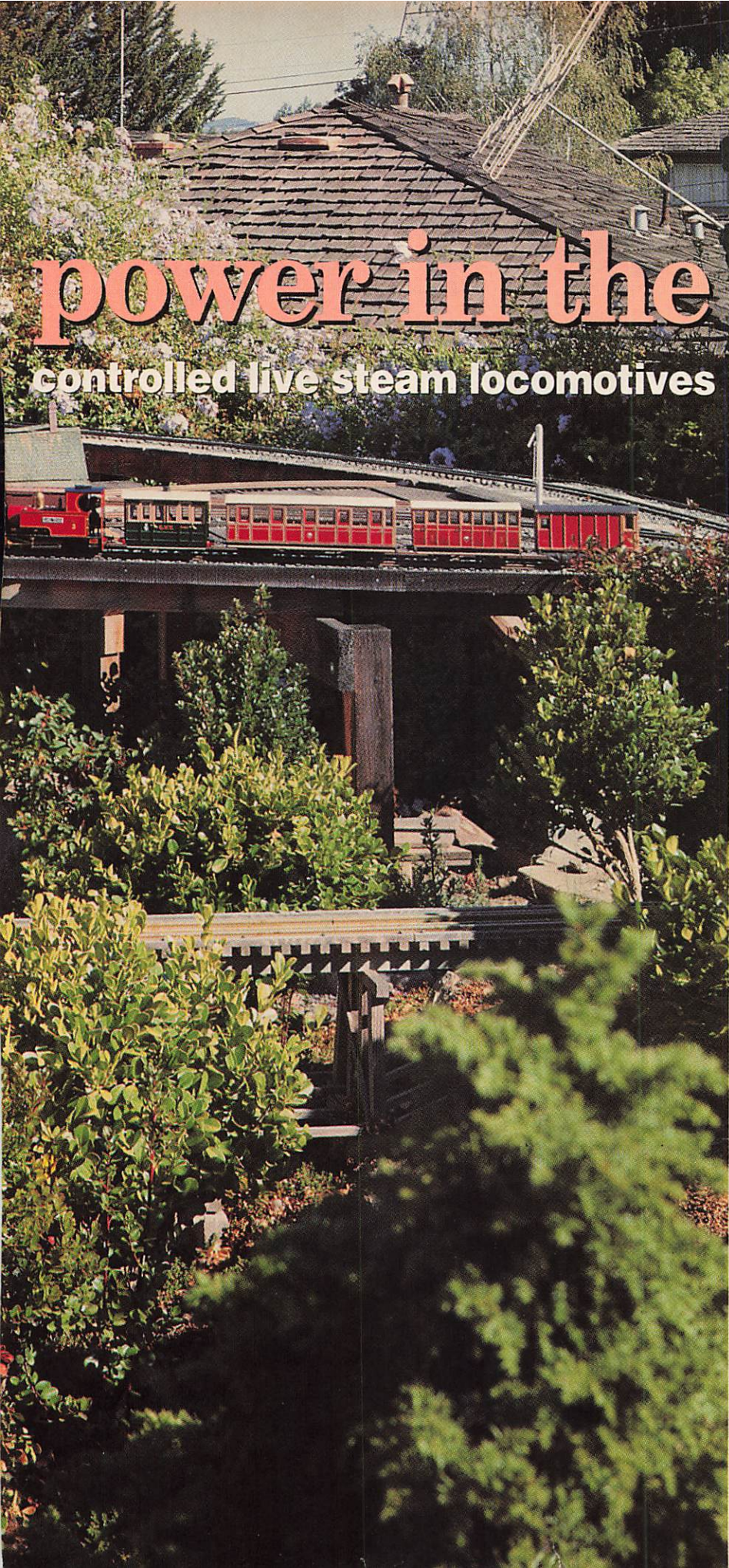


Fig. 11 APB TESTER

Real steam motive

This beautiful garden railroad features radio





power in the garden

controlled live steam locomotives

BY GROVER DEVINE

PHOTOS BY GEORGE HALL

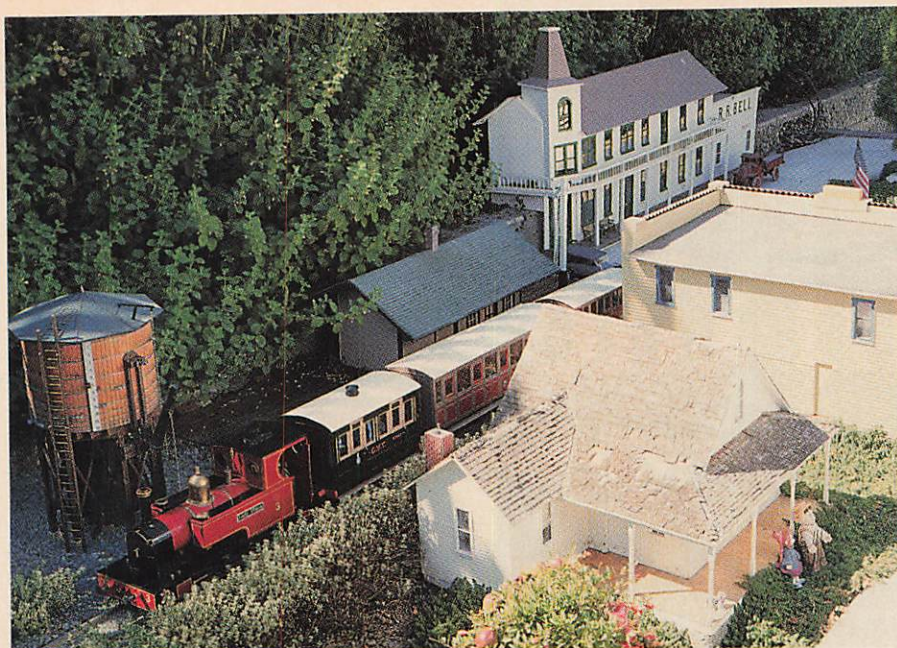
WHEN I decided to create a garden railroad 6 years ago, I approached the project from a model railroading background. I drew a scale plan of the space available and proceeded to cram in as much track as possible: sidings, engine facilities, alternate routes, all the things that most model railroads have. However, after some reading about other garden railways and giving the matter some thought, I realized that maintaining a lot of turnouts and track in the great outdoors could become a time-consuming chore and potentially dampen my ardor for the project. So I began to scale back my plan.

About this time, I was introduced to live steam. I quickly learned that live steam enthusiasts are fundamentally different from other model railroaders in their approach to the hobby.

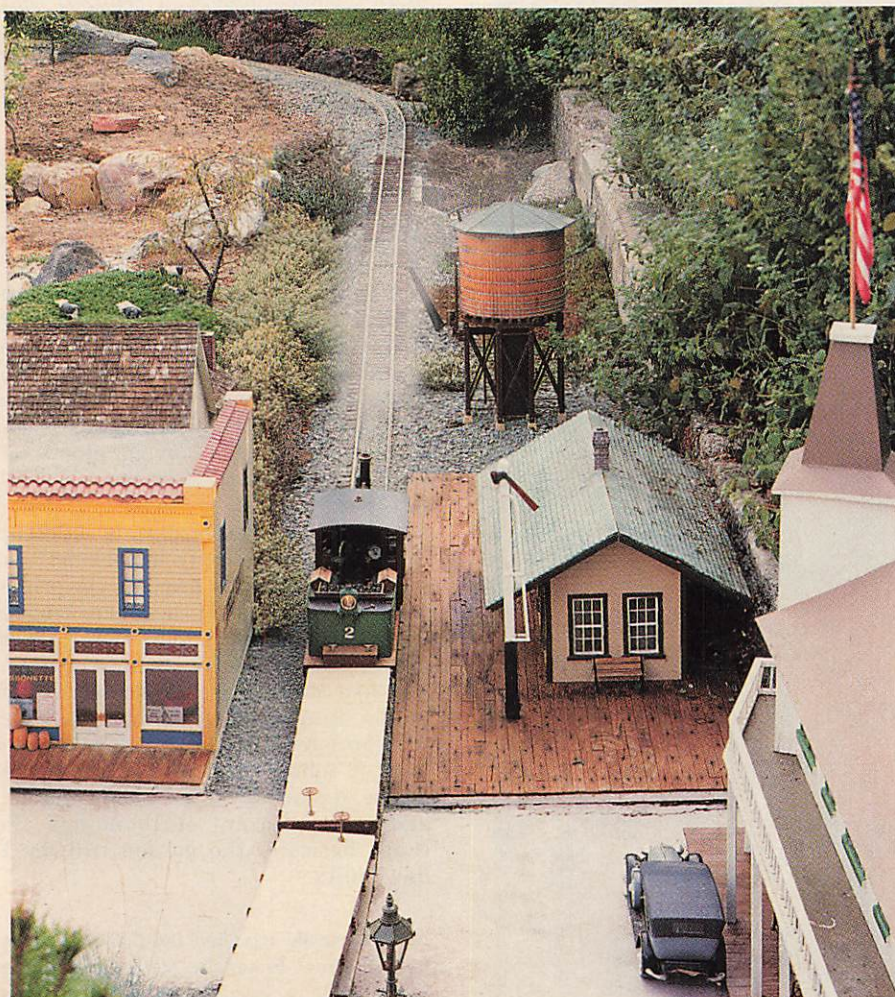
A model railroader who operates an electric powered engine, be it in HO or G, has little interest in just making the engine go by giving the knob on the power pack a twist. That's why these modelers have lots of rolling stock, operate by timetable, or do plenty of switching. In short, they operate miniature railroads.

A live steam enthusiast is different because he is not only a hobbyist but also an engineer and fireman. His prime interest is in making the steam engine go, and it takes much more than a twist of a knob to make the steamer operate. The live steam engineer doesn't really need a train to pull or complex trackage to negotiate. All he needs is a simple loop of reliable track, a few storage tracks, a place to steam up his engine, and some pleasant surroundings. So that's basically the garden railway I have built.

An extensively modified 0-4-0 live steamer built in Great Britain by Merlin Locomotive Works pulls a freight across the author's scratchbuilt redwood trestle in the foreground. In the background an unmodified little Merlin steamer heads a British passenger train.



Lady Diana is a little tank-type live steamer built by Merlin. It's radio-controlled as are the other live steamers. The passenger coaches are offered by Tenmille Products, another British firm. The village buildings, with the exception of the Pola water tank, were scratchbuilt by the author.



Another view of the village with the Americanized Merlin engine easing in for a water stop. In this view you can see the cab interior, which includes a steam pressure gauge and an R/C servo.

INFORMATION ON SMALL SCALE LIVE STEAM

This list of magazines and suppliers of small live steam locomotives and accessories is intended to help those interested in trying this facet of the hobby.

Magazines

Garden Railways

P. O. Box 61461
Denver, CO 80206
303-733-4779
Bimonthly, \$21/year

Live Steam

P. O. Box 629
Traverse City, MI 49685
616-946-3712
Monthly, \$29/year

Modeltec

P. O. Box 286
Cadillac, MI 49601
616-775-6296
Monthly, \$30/year

Outdoor Railroader

1574 Kerryglen St.
Westlake Village, CA 91361
Bimonthly, \$25/year

Steam in the Garden

P. O. Box 335
Newark Valley, NY 13811
Bimonthly, \$12/year

Videotape

An Introduction to Small Scale Live Steam By Marc Horovitz; \$49.95

Sidestreet Bannerworks
P. O. Box 61461
Denver, CO 80206
303-733-4779

No. 1 scale and G_n3 live steam engine and equipment suppliers

Aster Hobby USA Inc.

P. O. Box 90643
Pasadena, CA 91109-0643

Diamond Enterprises

P. O. 537
Alexandria Bay, NY 13607
613-475-1771

Garden Railway Ltd.

4210 Bridge St.
Cambria, CA 93428
805-927-1194

Railroad Supply Corp.

115 South Victory Rd.
Burbank, CA 91502
818-845-1727

West Lawn Locomotive Works

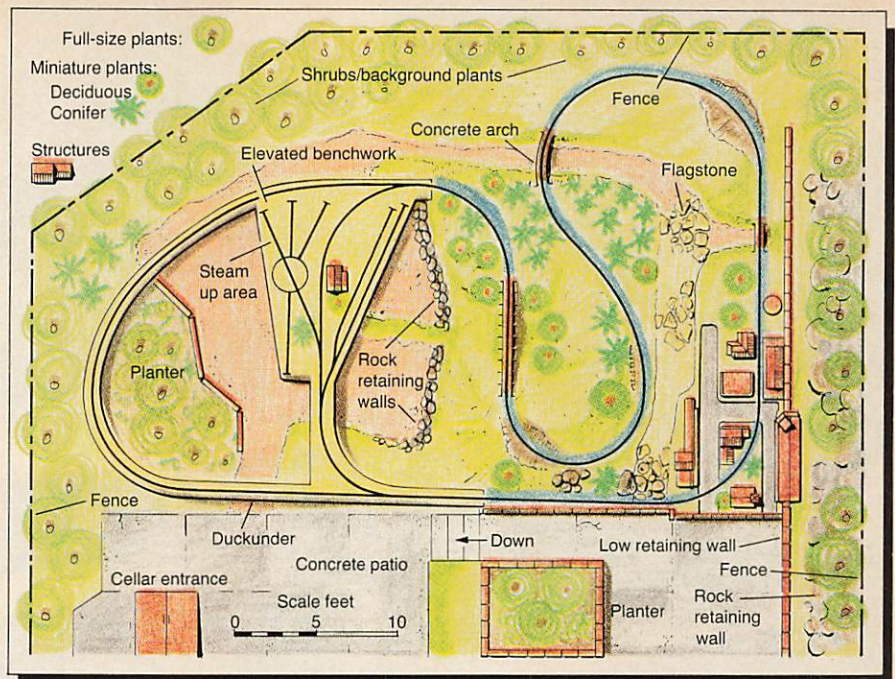
P. O. Box 570
Madison, WI 53701
608-231-2521

OVERVIEW

The model railroad I have is quite large — 30 x 50 feet — and it's nearly complete. Very little of it consists of man-made objects. Along this garden railroad Mother Nature supplies the hills, valleys, roadbed, ground cover, rocks, and trees. Only minor adjustments have been made to the natural terrain. Nature also provides the ever-changing backdrop of sky and lighting. Man-made objects include 200 feet of track, a handful of buildings, and some 4-foot-high wooden benchwork that supports about one-third of the track since my site is on two levels.

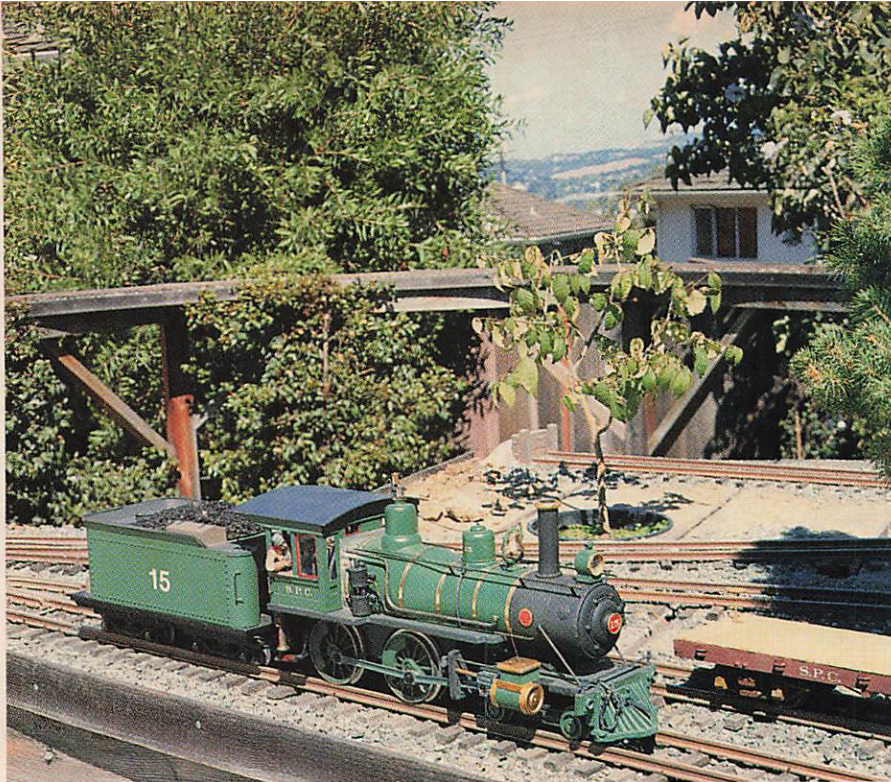
CONSTRUCTION HIGHLIGHTS

My trackwork consists of aluminum rail, which I hand-spiked to homemade redwood ties. I spiked the track in place on the site rather than at a workbench. I think the resulting track is very realistic and worth the effort. However, this process is very time-consuming and back-breaking.



The entire garden railroad and its builder can be seen in this wide-angle shot taken on a sunny California day. About one-third of the 30 x 50-foot railroad is built on benchwork, much like an indoor layout.





Not all the author's locomotives are steam powered. This Kalamazoo 4-4-0 was rebuilt to look like South Pacific Coast no. 15. It was a major job involving lengthening the boiler and adding a new cab and pilot. The 4-4-0 is powered by rechargeable onboard batteries with R/C control.

— MEET GROVER DEVINE —



Grover Devine describes garden railroading as "a therapeutic, relaxing hobby that continually refreshes both the mind and spirit. It's an outlet for my creative instincts, it doesn't place heavy demands on me, and, above all, it's fun!"

Prior to discovering garden railroading 6 years ago he'd been active in model railroading indoors in smaller scales on and off for about 30 years.

Grover has always been interested in model building having got started at age 8 scratchbuilding balsa airplanes. Now he enjoys scratchbuilding half-inch scale rolling stock and structures for his garden railroad.

He partakes of the social side of the hobby with fellow members of both the Bay Area Garden Railway Society and the Golden Gate Live Steamers.

A retired firefighter, Grover and his wife Lynda have three children and one grandson, who his grandpa reports, is fascinated with trains.

All my turnouts are handmade. I cut the parts as I would if building an HO turnout, but assembled them with nuts and bolts and an adhesive called J. B. Weld instead of soldering.

Except for the water tank, the structures were scratchbuilt from pine and Masonite. Then I painted them with marine grade undercoat and enamel to provide a finish that will be tough enough to withstand the elements.

I have also indulged a life-long interest in scratchbuilding rolling stock. Although to this point I've built only a modest number of cars for my garden railroad, it's has been a new and exciting experience. I have enough projects planned to last for years.

Besides having fun with my new and larger scale railroad, I've acquired an interest in gardening that I never had before. Many a pleasant day has been spent puttering around on my garden railroad without ever running a train. In addition, this is the first hobby my wife and I have enjoyed together. It's this kind of family involvement that attracts me and others to garden railroading.

YOU DRIVE

Now, how about a tour of the line? I'll let you drive! We'll pick up our engine at the turntable. We can't just start running because first we have to steam up the engine. To begin, unscrew the safety valve and fill the boiler, top off the oiler with steam oil, and fill the fuel tank with butane. Next, light the

fire. Now we'll have to wait 5 minutes or so for the steam pressure to rise.

While we're waiting, we can look over the locomotive you're about to drive. It was made in Wales by the Merlin Locomotive Works and is about 5 years old. Originally, it was an 0-4-0 tank engine, but our shops removed the tanks, changed the cab, built a four-wheel tender, and added details. It's equipped with a radio-control unit for throttle and direction, so you won't have to run alongside to keep things under control. We'll give the radio-control unit a quick check while we're waiting to make sure everything is right.

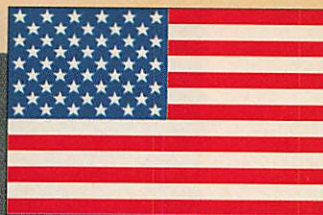
The steam pressure gauge is now reading about 40 psi, so our engine is ready to go. Crack the throttle and ease the engine out on the turntable. Not too fast here; we don't want to run off the other side! We'll have to push the turntable by hand because the owners were too cheap to buy a powered one. Now let's head out to the main line, but slow down for the switch up ahead to give me time to throw it.

Ease open the throttle, and we'll be off down a long section of straight track headed for the village. The turn entering the village is sharp and on a slight grade, so you'll have to open the throttle to maintain your momentum. We won't stop at the station, but will proceed down another straightaway. This section has a slight downgrade, so ease up on the throttle a little. We now enter a series of turns. Mind your business — a little more throttle for the turns and a little less for the straightaways to keep a nice slow, even pace.

We'd better stop for a second so I can adjust the burner. There, now we can get going again. We're crossing the wooden trestle and going into a left turn. Be careful here because the track was damaged a couple of years ago by vandals and derailments are frequent. This section is scheduled for replacement soon with new rail. Oops! We're on the ground! Shut the throttle and get out the leather gloves so we can rerail the locomotive. The boiler gets very hot, which is why gloves are a must.

We're on the road again, heading back on the raised benchwork to our original starting point. Did you notice the scenery, or the buildings, or the cat sleeping under the bush, or even the fact that you weren't pulling a train? Probably not, because you were concentrating on operating a real steam locomotive.

You've got the hang of it now and there's about 20 minutes of steam left, so I'll turn you loose to have fun. ♡



Left: Mr. Nam-Dal Cho, center, and one of his lieutenants, look on intently as Tom Marsh studies a pilot model for a brass locomotive. **Below:** It was a rainy August morning when Fred Hamilton, MR's ad sales director, and the author visited Overland Models in Muncie, Ind. Left is Fred and right is Tom Marsh, president of Overland. The green locomotive cab is the real thing, compliments of General Electric.

Birth of a brass locomotive

MR visits Overland Models in Indiana and Ajin Precision in Korea

BY JIM KELLY

PHOTOS BY THE AUTHOR

TERRIFIC! That favorite locomotive you've wanted for years is announced in a brass importer's ad. The next day you stop in at the hobby shop and put down 50 bucks to reserve one. Then you wait, not very patiently. A year later you're holding your breath and cautiously lifting the cover off the box. There it is in all its golden glory! This story is about the events that made that special moment possible.

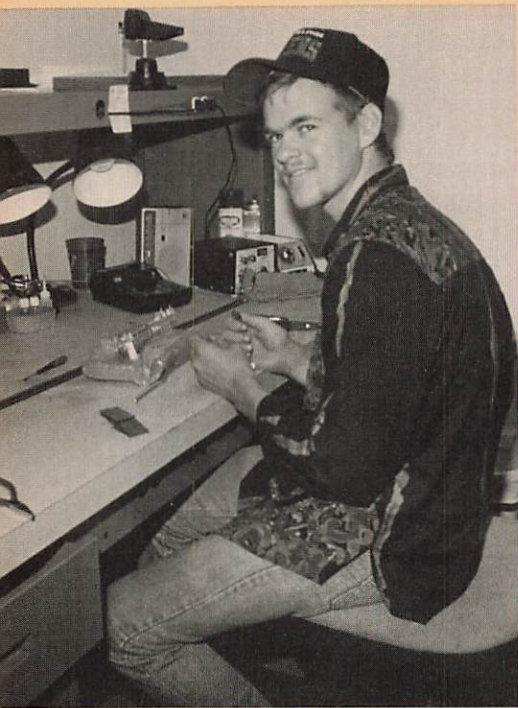
We'll look at one importer, Overland Models Inc. in Muncie, Ind., and one builder, Ajin Precision, halfway around the world in Seoul, Korea. These two firms have been teaming up since 1979 and together have placed 1,500 different models on the market.

OVERLAND MODELS

Typical of nearly every brass import firm, there's one man behind Overland



Here's the crew at Overland Models. Left to right are Lisa Bennett, Jan Marsh (Tom's wife), Tom, Ron Crawford, Bruce Mahoney, and Brian Marsh. Brian is Tom's son and author of the book *Overland Models: The First Ten Years*. Tom's right-hand man, Arnt Gerritsen, works out of his home in Chicago. Besides brass models, Overland offers an extensive line of parts and decals.



Left: Bruce Mahoney is Overland's repairman. Tom Marsh likes it just fine if Bruce is not kept busy. He wants him to be like the Maytag repairman of TV commercial fame. **Above:** Here are your author, left, and Tom Marsh in "Green Heaven," known otherwise as Overland's storage shelves. Only about a quarter of the inventory can be seen here. Fred Hamilton took the photo.

Models. Tom Marsh is a youngish 50 years old and generally casual in dress and manner. He's a very competent and forthright businessman, but laughs easily and seems to thoroughly enjoy his work — a good thing, as there's an awful lot of it.

Kids don't grow up planning to be brass importers. As is the case with anyone who does something a bit unusual, circumstances in Tom's life conspired to make him what he is today. First came a strong business background, courtesy of the Marsh grocery chain, headquartered in Muncie and with stores all over Indiana and Ohio. Tom's uncle founded this company, and Tom worked in it for 29 years.

Tom's father and uncle worked closely, and their success enabled Tom's father

to frequently indulge his passion for world travel. Traveling with his father, Tom had already visited the Orient several times before he was 20, so it didn't hold the mystery for him that it might for someone else going into the import business.

And Tom absolutely loves trains, both prototype and model. He started with Lionel when very young and later went to HO. In fact, he and Anton Wenzel started Overland Models in 1977 because both were frustrated at not being able to get the models they wanted. They felt the importers weren't meeting the demand.

Full of big plans, they started writing letters to manufacturers and quickly came in for a rude awakening. It was hard to get a response. As Tom has

learned since, builders constantly get letters from would-be clients and they've all been burned by naive Americans who didn't know what they were getting into or didn't stick with the business past those first few models. Tom says it took several years to get anyone to pay attention to them.

Because Tom was a die-hard Union Pacific fan and Tony was hardcore Great Northern, they started with cabooses for those two roads. After two years of marginal success, including an aborted move to Colorado by Tom, the partners split and Tony went off on his own to form Oriental Limited.

Tom left behind laying out the floor plans for supermarkets and made Overland Models his full-time job. Today his company is the largest U.S. brass importer, bringing in 40,000 pieces a year. Most models are made in runs of only several hundred, so the variety of different items is staggering. There may be ten or more variations on a single diesel locomotive, reflecting the detail differences between railroads or prototype production runs.

Overland sells models all over the world, with major customers in Europe, Japan, and Australia. A tremendous number of models are sold to Canadians, who historically have starved for true models of Canadian prototypes.

DECIDING WHAT TO MAKE

This is a risky business, and the importer's fortunes rise or fall depending on the models he chooses to have made and the quantities he orders. Tom listens to individual modelers, but in the end says he must trust his own instincts. What the individual mostly



Looks like this teacher has seized upon the train concept as a way to keep her students "in line" while visiting the National Railroad Museum. Only a few years old, the museum is excellent.

knows is what he wants for his own railroad. Overland also attends 15 to 20 shows a year, traveling all over the country, and the input from those is a help in determining what will sell.

Over the years Tom has learned that one of the best defenses against sales disasters is quality. If he brings in an accurate model that runs well, it'll go out the door sooner or later, even if he's guessed wrong on the model's appeal. On the other hand, a bad model of an unpopular prototype is a dead duck.

Tom says that for Overland's first 8 years quality control was a tremendous difficulty, and it can still be a problem. He tips his hat to Samhongsu, which he says has probably the best quality control among the Korean manufacturers.

Tom has a passion for accuracy and detail, and over the past half-dozen years Overland has been a leader in taking the accuracy of imported models to levels never dreamed of before. He has a vast collection of books, magazines, and reference materials and is constantly adding to it. When Tom is at shows and sees prototype photos for sale, he often buys them and adds them to the files. Sometimes these are photos of prototypes he's already produced, but reruns keep coming around, and improvements can always be made.

Regarding the trend toward more detail that came in the 1980s, Tom says that it was at least partially due to the industry-wide shift from Japanese to Korean manufacturers. With their long manufacturing tradition, the Japanese had developed conventions about what to include and what to leave off. With no tradition to draw on, the Koreans just put on everything they could see in the photos. (Sometimes this might even be a stack or hatch that actually belonged to a piece of equipment parked on an adjacent track.)

THE LATEST STUFF

Tom counts as one of his proudest achievements Overland's models of to-



Most of the brass models Overland imports are made at Ajin Precision's attractive factory in Seoul, Korea. Your author visited in April of last year. The facility was spartan and clean.

day's high-tech locomotives and cars. These have become something of an Overland specialty, and he's been able to bring them on the market within 2 or 3 months of their introduction on the prototype. Traditionally the gap between prototype and model has been more like 6 or 7 years. Such promptness has its rewards. Overland made six runs of the GP50 before Athearn's plastic model finally appeared!

The secret to such punctuality is measuring and photographing the equipment himself, rather than waiting for information to be published. Tom's chief aid in these endeavors is his draftsman, Arnt Gerritsen. Tom showed me five packages of photos and several pages of measurements that he and Arnt had just completed on the GP60B. Arnt will work these up into a set of drawings to send to the builder.

INSIDE OVERLAND

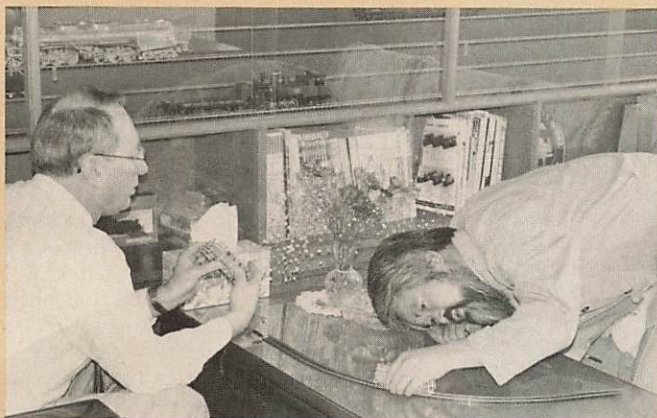
As our photo shows, Overland is headquartered in an attractive, modern building. That green locomotive cab poking out from the front wall is probably a clue to most passersby that

something a bit unusual goes on inside. The cab came from Erie, Pa., where Tom spotted it while walking through the General Electric plant. When he was told they were going to scrap it, he offered to buy it. Instead, they gave it to him. Suddenly he had a big problem — how to get it to Muncie. (The solution was a truck.)

Overland's offices are nicely laid out and well lighted and furnished. If you like railroad art, you'd love the paintings Tom has on his office walls.

Besides offices, shipping, and storage, there's a large room where models received are inspected. Also in this room is the repair facility and, much to my surprise, a large Sn3 layout that was built by S scale manufacturers, Jon Stetz chief among them, and featured in the August 1990 MR. This was exhibited at major shows across the country before Tom bought it. (Incidentally, Overland has become increasingly interested in Sn3 and recently introduced two plastic Sn3 car kits made for them by Grandt Line.)

The brass business isn't what it was in the 1970s, but no dust is settling on



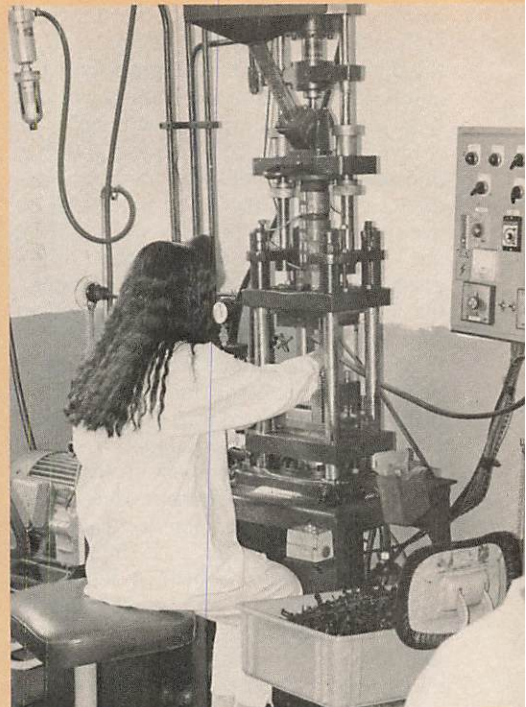
Tom Marsh, left, and Mr. Cho of Ajin check out some pilot models for HO New York Central electric locomotives, coming in three versions.



Drawings must be prepared for every part that will go into a model. Craftsmen work from that artwork to make the pilot models by hand.



Above: Hand presses are used to shape parts from sheet brass. Below the worker's hand are cab stampings he has made. A run through a second press will cut out the window openings. **Right:** Plastic parts are made in this injection-molding machine. Because of the need to insulate parts electrically, there are more plastic parts in a brass locomotive than one might realize.



the green boxes on Overland's shelves. And even though the prices keep going higher, Tom sees a very good future in the brass importing business, with lots of projects yet to do. He says, "Plastics can't produce everything. We can build 200 to 300 of something and walk away."

Today's customers have adopted more of a wait-and-see attitude. They're paying a lot, and they want their money's worth. And in the search for more projects the manufacturers will have to pay more attention to minority interests and special interest groups.

VISITING AJIN

Once the importer and builder have opened negotiations on price and quantity, the pack of drawings goes off to the builder. In Overland's case that means

that more than 90 percent of the time it's addressed to Ajin Precision in Seoul.

Ajin was founded in 1976 by Mr. Nam-Dal Cho, who had worked 6 years for Samhongsu. With 200 employees Ajin is far and away the second largest brass model manufacturer in the world. (Samhongsu is the largest, as I described in the October 1991 MR.) Mr. Cho travels considerably and comes to the United States once or twice a year, so you may meet him someday at a convention. Several others in the company also come over occasionally.

I asked Mr. Cho what the word "Ajin" meant and came away totally befuddled. He said it was a Chinese character that could have various meanings, among them "I made it myself," or "runs to the top," or "stays at the top."

"Fine and dandy," I thought to myself, "I had to ask."

Besides the factory in Seoul, Ajin has three factories in the countryside. The firm brings in workers from the country, trains them for 3 to 5 years, and then returns them to the outlying communities. This can work out well for the workers because they continue to receive Seoul wages though they're living in less expensive areas.

Ajin builds its American models exclusively for Overland, but does produce models for Micro Metakit in Germany and Allmo in Switzerland.

Arnt Gerritsen's side, end, and top views are really just the starting place for planning the model. Next, the model makers have to decide what their approach will be, and then drawings must be made for every part that will be fabricated.

Next comes a handmade pilot model that the importer goes over scale inch by scale inch. When I went with Tom Marsh to the Orient last spring, he left several days ahead of me just so he would have more time to inspect the 13 pilot models that were waiting for him.

When an inspection begins Mr. Cho invites in the person who headed that particular project. He brings with him the models (usually there are several variations) and all the drawings and photos Overland provided.

In most cases Tom would find only two or three glitches, things that a typical modeler would never notice: a door guide that's a little too wide, no stops to prevent reefer hatches from banging against the roof, that kind of thing. After a visual check the models are test-run.



The Korean National RR has been operating these 3,000-hp freight diesels since 1971.



This young lady is making final adjustments on a giant HO scale DD35B. Although Overland has offered these engines before, Tom pointed out these will be the first to have correct running boards with rolled-over edges, a detail that simply hadn't been noticed earlier.



A painter sprays the cylinders for a steam locomotive. Meanwhile a sheet of water running down the walls of the booth carries away the overspray. More customers are wanting their models factory-painted.

PRODUCTION

Once Tom gives the go-ahead Ajin can start production. Getting the parts made and brought to the assemblers on schedule is a terrific challenge in logistics.

As is typical throughout the industry, Ajin subcontracts some of the work, including lost-wax casting and photoetching. Ajin has several cars and drivers who spend the day ferrying people, plans, and parts back and forth to subcontractors and other businesses.

One of the last people to handle the models is also one of the most important. He's the guy who packs them into the green boxes, and Tom says he tries to treat him real nice. One good bounce

in a UPS truck can convert a model to junk if it's not packed properly.

BACK TO AMERICA

The day a model is shipped is very important for both Ajin and Overland. Mr. Cho gets his money, and Mr. Marsh knows he has a product on its way. Payment is via an irrevocable letter of credit. The money is waiting in the bank, and the builder gets it when he presents evidence he has shipped. Then, whether the models are good, bad, or indifferent, they're bought. As Tom points out, the builder could ship a box of rocks and still get paid, so the importer and builder must develop a strong relationship based on mutual respect and trust.

Before the models arrive, Overland has begun advertising and selling them. Ads must be prepared for magazines and flyers mailed to dealers. Then comes the job of inspecting the arriving models and delivering them to the customers.

Tom spends most of the day on the phone. When he gets home in the evening the workday is far from over. That's when he does most of his planning and research for the models to be built in the future. If he doesn't do that, it'll be bad for Mr. Cho, who won't have the orders. It'll be bad for Tom, who won't have any green boxes on the shelves. And it'll be bad for thousands of model railroaders, who look forward to owning those golden treasures from the Orient. ☼



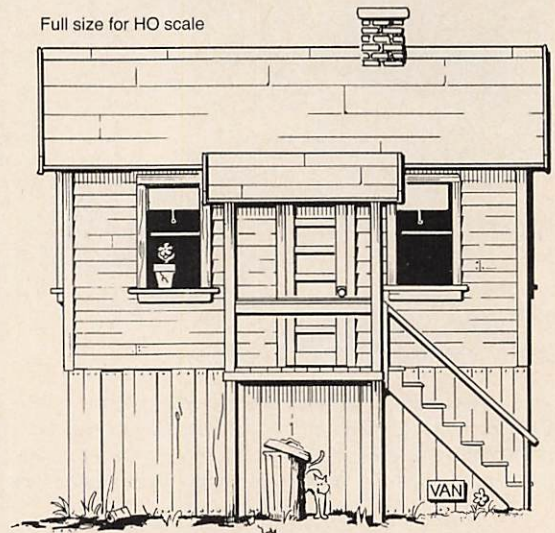
Above: East meets West in Seoul's Etawon District, where you can buy practically anything at bargain prices. Would you believe a Rolex watch for \$18? We didn't think so. **Right:** Street vendors roll their carts into position for a busy afternoon on Etawon St.



*Especially
for beginners*

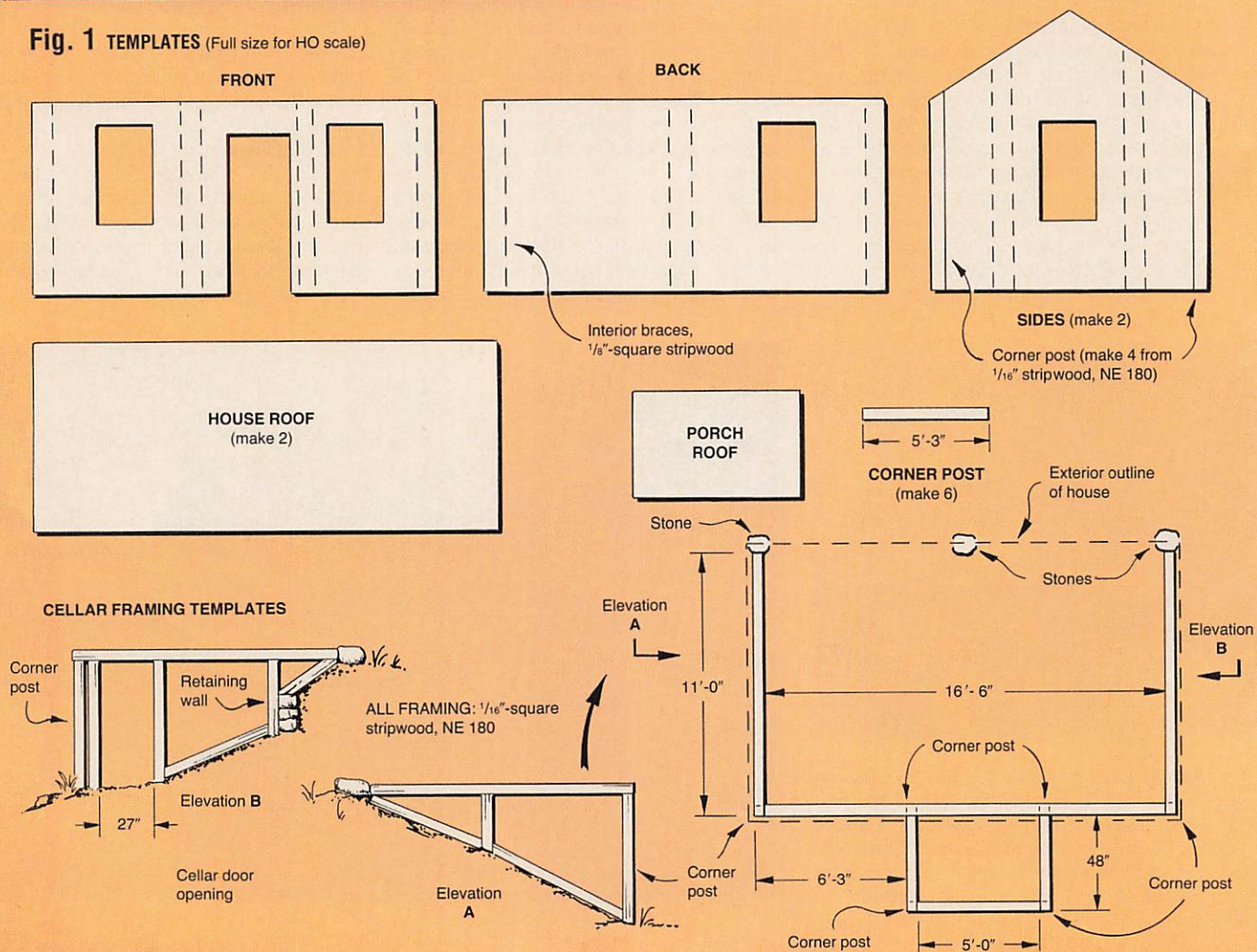


Full size for HO scale



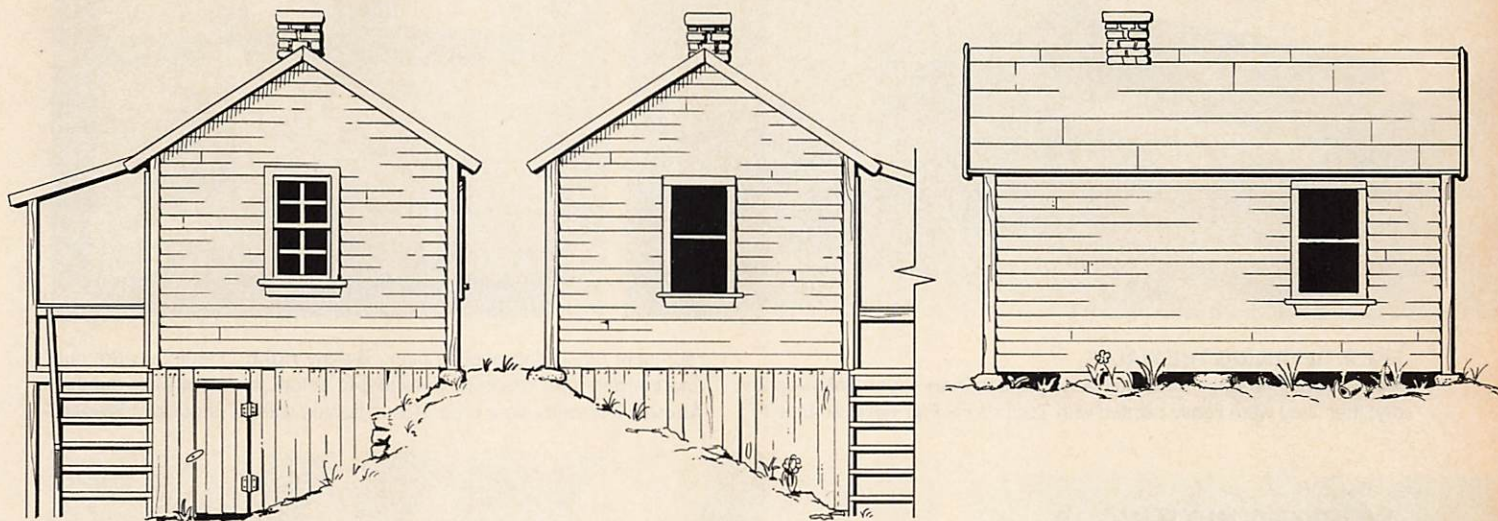
This humble abode sits on the highest hill on our "Especially for beginners" HO scale layout. This series began in the January 1991 issue. Photo by A. L. Schmidt.

Fig. 1 TEMPLATES (Full size for HO scale)



The house on the hill

A perfect project for that first scratchbuilt wood structure



BY SAM SWANSON

PHOTOS BY THE AUTHOR

THIS HO scale house on the hill combines features of several working-class homes from the 1930s and will be a nice addition to the Cripple Creek Central layout. It's also a good choice for your first attempt at scratchbuilding with wood. Let's get right to it.

PREPARING THE WALLS

After collecting the materials and reading through the article once, cut out the wall templates in fig. 1 and trace them onto your sheet of clapboard siding. (Make a copy if you don't want to cut up your magazine.)

Cut the door and window openings halfway through. (Read the sidebar, "Working with wood," if you're unfamiliar with basic cutting techniques.) This will make the lines easier to find and finish cutting after you've painted.

Distress the walls, as shown in fig. 2, then stain them with a solution of 3 drops of India ink dissolved in 1 ounce of rubbing alcohol. A no. 4 flat brush works well and will cover three boards in one pass. Stain all the stripwood with this same ink solution.

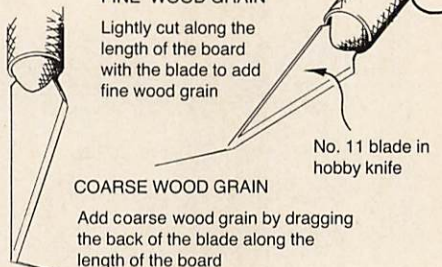
Allow the walls to dry for about an hour, and then lightly sand individual boards with 320-grit sandpaper. Seal the walls with a thin coat of Testor's Dullcote. The sanding removes any wood fuzz that may result from the distressing, and the Dullcote seals the wood to minimize the amount of paint it absorbs.

Fig. 2 DISTRESSING CLAPBOARD SIDING

ADDING WOOD GRAIN

FINE WOOD GRAIN

Lightly cut along the length of the board with the blade to add fine wood grain



COARSE WOOD GRAIN

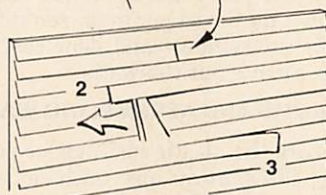
Add coarse wood grain by dragging the back of the blade along the length of the board

DEFINING INDIVIDUAL BOARDS

Scrape along the underside of each board with the back of the blade

No. 11 blade in hobby knife

1. Cut vertical board end



2. Cut under the board, both cutting and prying the individual board from the siding

3. Cut along the top of the board and pry it down

Fig. 3

PAINTING PEELING PAINT

1. Dip the brush into the paint so that half the bristles are covered

2. Work the paint into the bristles by stroking back and forth 2 or 3 times on a scrap of paper

3. Drag the brush along the length of the siding boards. Paint the entire side lightly so that paint coverage is spotty. Allow it to dry for 20 minutes before moving on to step 4

4. Clean the brush and moisten it with thinner. Run the brush along the length of the boards, smoothing the paint in some areas and removing it in others

Repeat steps 3 and 4 until you've reached the desired peeling effect. Individual boards can be finished by using the narrow side of a no. 4 brush. Two warnings on using thinner: Too much thinner will cause the paint to become glossy, and the enamel cures in about a day. Therefore, you need to do your painting and peeling in one sitting

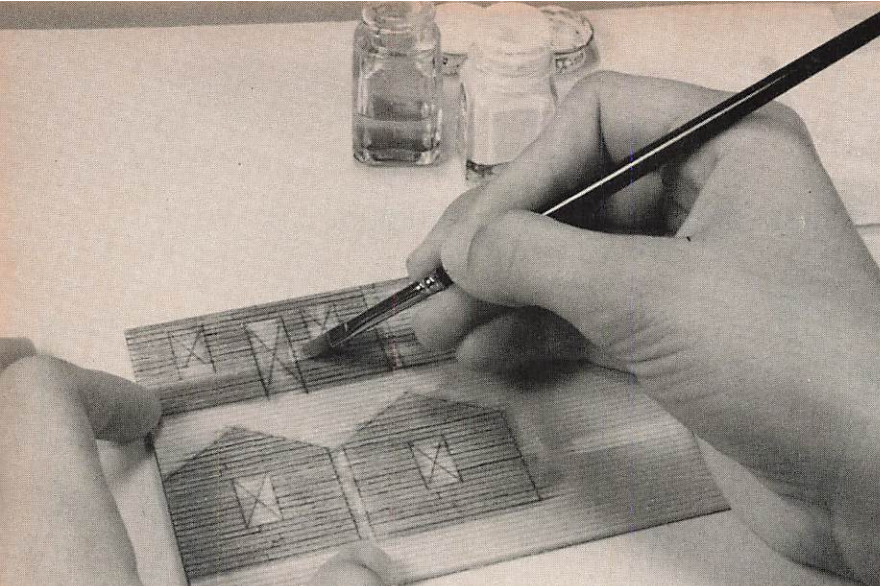
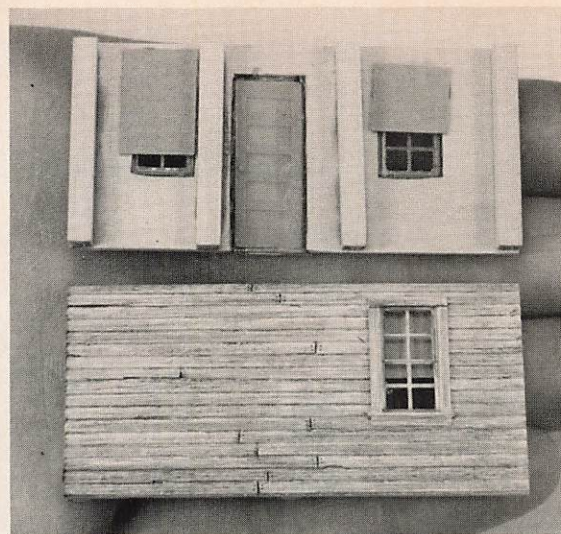


FIG. 4. DETAILING THE WALLS

Above left: The walls were stained with dilute India ink and allowed to dry; then they were lightly painted with Testor's FS Flat White enamel to



represent faded and peeling paint. **Below right:** Openings were cut, and the door and windows were test-fit before the walls were cut out. **Above:** The walls were braced from behind with 1/8"-square stripwood.

WORKING WITH WOOD

CUTTING WOOD

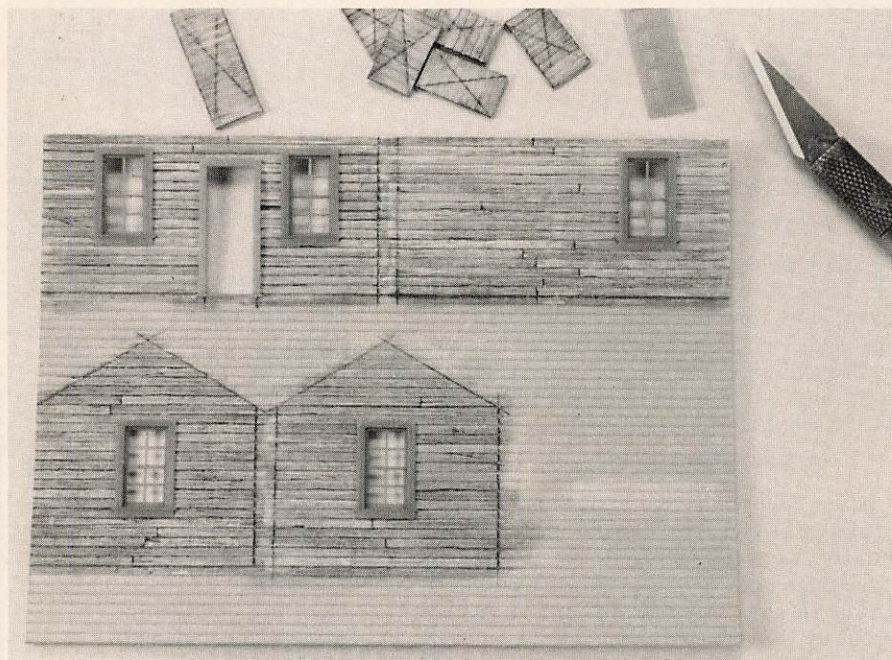
- Use a no. 11 blade in a hobby knife or single-edge razor blade.
- Change blades often. Clean, precise cuts are easiest to make with new blades.
- Use a metal straightedge to guide the blade during long cuts. Also use it to cover the part you're cutting so an errant cut won't ruin the part's surface.
- Use a series of shallow strokes, rather than trying to cut through the wood in one sweep.

SANDING WOOD

- Use wet-or-dry sandpaper for fine grits of 240 or more. Wetting the wood often makes precision sanding easier.
- Sand along the wood grain where possible; always sand in the same direction rather than in circles.
- Keep the sandpaper flat by using a block of wood to back the paper, an emery board as bought, or a finer-grit sandpaper glued onto an emery board.

GLUING WOOD

- Use glue sparingly when joining two wood objects, but always coat both surfaces before pressing them together.
- When using any form of white glue, hold the glued joint firmly with your hands for 2 minutes. During this time, inspect the joint and overall alignment. Pick any glue that's oozed from the joint with the point of a no. 11 blade after the glue has started to set (when it has the consistency of putty).
- Where possible, weight the glued joint for at least 2 hours. If the pieces are badly warped, weight them overnight.



Paint the walls with the same no. 4 brush. The technique used to represent peeling paint is shown in fig. 3. I used Testor's FS Flat White enamel, but you can use other readily available flat enamel colors from Pactra or Humbrol.

After the paint has dried, cut out the window and door openings (see fig. 4). Test-fit the window and door castings before cutting out the walls.

DETAILING AND ASSEMBLING WALLS

Prepare the plastic castings for painting by filing away any flash or sprue bumps and washing them in warm, soapy water. Paint the castings to match the walls, using flat enamel and thinner, and brushing with the wood grain. The light gray color of the Grandt Line parts aids in painting them to match the sides,

so if you use other window and door castings, first paint them gray. Allow the painted castings to dry overnight.

After cutting the walls free, glue interior braces to the back of each and place them under several heavy books for at least 2 hours. (I use Elmer's Carpenter's Wood Glue for Darker Wood for wood-to-wood and wood-to-plastic joints, Elmer's Glue-All for window glazing, and Plastruct Plastic Weld Cement for plastic-to-plastic joints.)

Detail the walls by gluing in the windows and door frame, glazing and shading the windows, and cementing the corner posts onto the right and left sides.

I painted the doorknob and key plate with Testor's FS Flat Black, washed them with Polly S Rust, then cemented the door slightly ajar. A final light

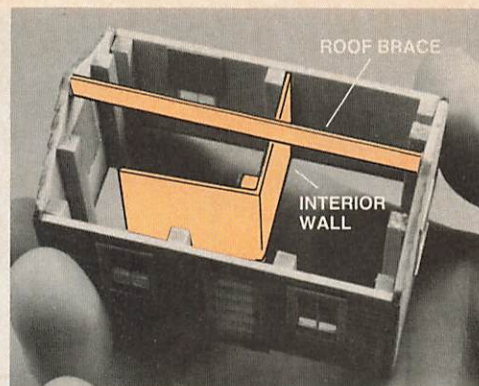
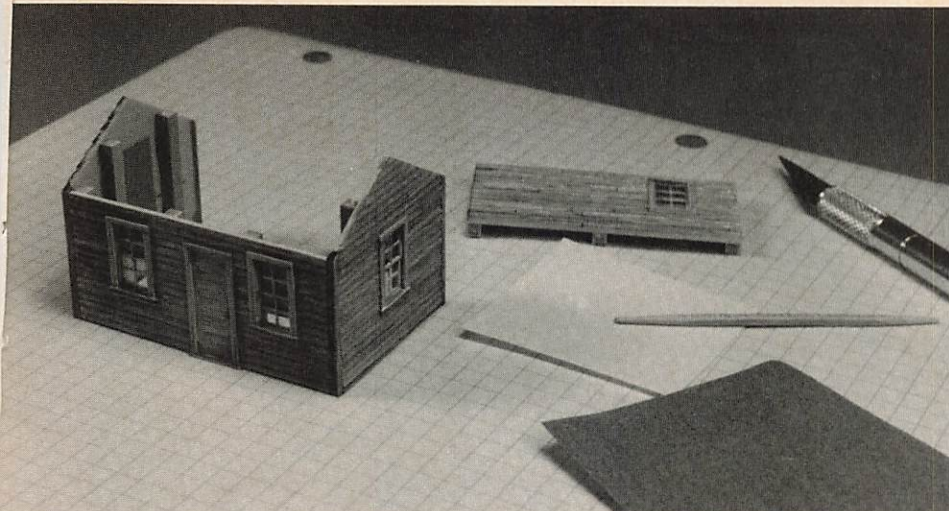


FIG. 5. ASSEMBLING THE WALLS

Left: Our author used graph paper to make sure the building came out square. **Above:** The roof brace and interior wall completed the assembly.

application of the ink solution, particularly on the underside of wall and window boards, ties the components of each wall together visually and helps the distressing stand out.

Using a piece of graph paper, test-fit the walls as shown in fig. 5. Lightly sand the edges and tack them together with tiny beads of white glue until they fit squarely with no large gaps. Before gluing the walls together permanently, check their vertical squareness with a drafting triangle.

Allow the assembled walls to dry for two hours, then add the roof brace and interior wall. I installed the wall so it's impossible to look all the way through the building. Stain the interior wall with ink solution.

THE ROOF

Trace the roof templates (fig. 1) onto the .040" sheetwood and cut out the three roof panels. Use the ink solution to stain the edges, the underside of the porch roof, and those underside portions of the main panels that will overhang the sides. Place the panels under a weight for an hour while drying.

Figure 6 shows how I made tar-paper roofing by painting a 4"-square piece of typing paper on both sides with Polly S

Grimy Black. Once the paper has dried, cut it into scale 24"-wide strips. Starting at the bottom of each house roof panel, spread glue along the back of each strip and press it onto the roof panel. Overlap the strips by a small amount — $\frac{1}{32}$ " is fine.

Glue the tar-papered house roof panels in place and add a ridge filler. I cut mine from the .040" sheet stock. Finish the house roof by folding a strip of tar paper in half lengthwise and gluing it over the peak.

Detail the roof by adding the chimney, repair patches, and dust and soot streaks. Then hollow out the chimney with a no. 11 blade and paint it with Floquil Primer. Before cementing it to the roof with two-part epoxy, carve out the portion of the roof peak for the chimney hole. After painting the bricks (I used shades of gray mixed from white and black flat enamel) and gluing the chimney in place, paint its inside flat black. Simulate the sealing tar around the chimney and roof patches with gloss black enamel, and the soot and dust streaks with black and gray chalk, respectively.

Finish the house by adding the roof fascia boards, which should be painted to match the siding and cut from the template in fig. 1.

THE BASE AND CELLAR

For the base, use a $3\frac{1}{2}$ " square of plywood that's at least $\frac{3}{8}$ " thick. Build the hill the house fits against with whatever material you like — I used four layers of $\frac{3}{16}$ "-thick foam core board (see fig. 7). After cutting the foam core to shape, I covered it with a $\frac{1}{8}$ "-thick layer of Durham's Water Putty, which I also used to sculpt the three flat stones the back of the house rests on.

Construct the top of the cellar frame, then add the two outer corner posts and fasten the frame temporarily to the bottom of the house with masking tape. Carve out depressions at the top of the hill for the three support stones, and adjust the stones and frame so the house rests level. Glue the stones and frame to the base with dark wood glue. Remove the house once the stones and framework have dried.

Build the rest of the cellar framework directly on the base. Paint the stones and add the retaining wall using $\frac{1}{16}$ "-square stripwood.

Construct a posterboard dam around the base, as shown in fig. 7, then sprinkle on soil and use an eyedropper to bond it with a mixture of 1 part water, 1 part white glue, and a few drops of liquid dishwashing detergent. Just wet

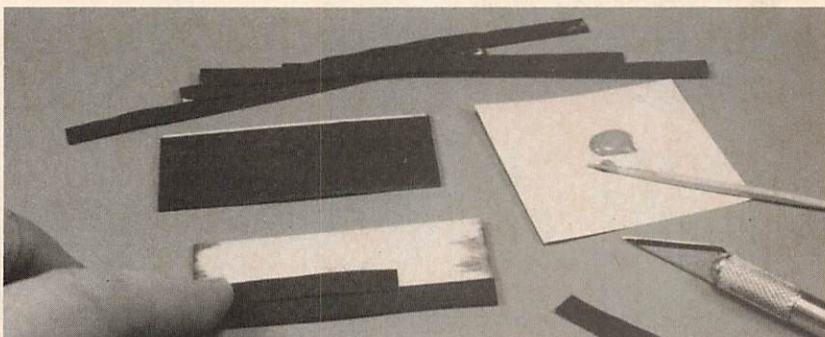
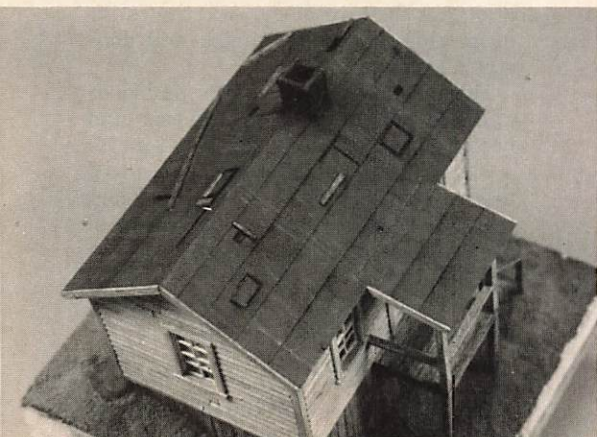


FIG. 6. ADDING THE ROOF

Left: Tar-paper roofing was represented with strips of black-painted typing paper. **Above:** Repairs give the roof a worn but well-maintained look. Drybrushing brings out details.

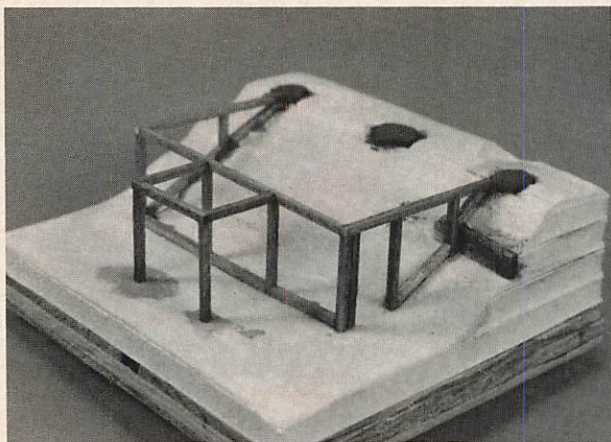


FIG. 7. ADDING THE CELLAR

Above: Our author butted his house up against a hill made from foam core board.

Right: He temporarily taped on the house to level the floor frame. **Below left:** The timber frame was completed, then a cardboard dam held dirt in place while it was bonded with dilute white glue. **Below right:** As the final step, he applied the vertical boards individually.

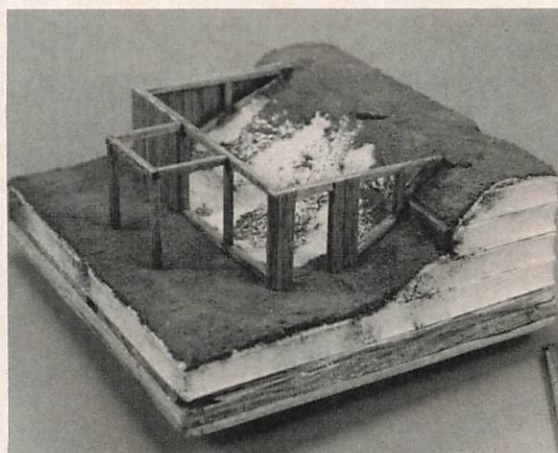
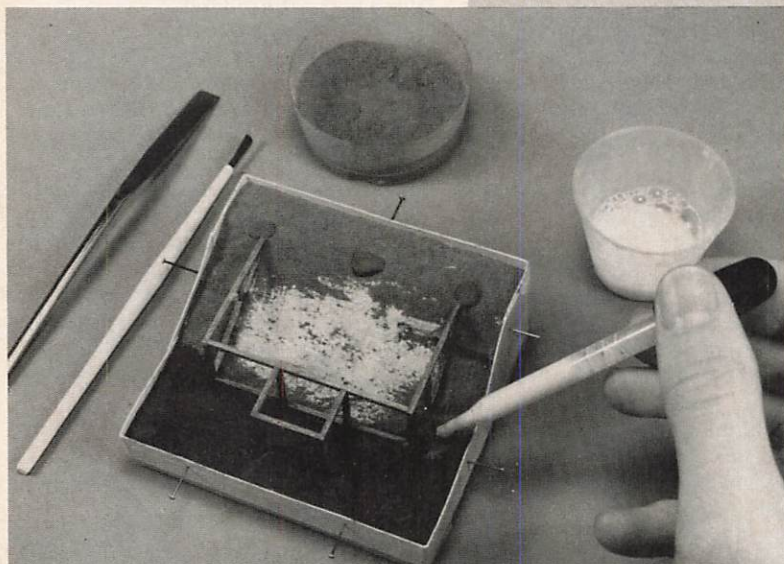
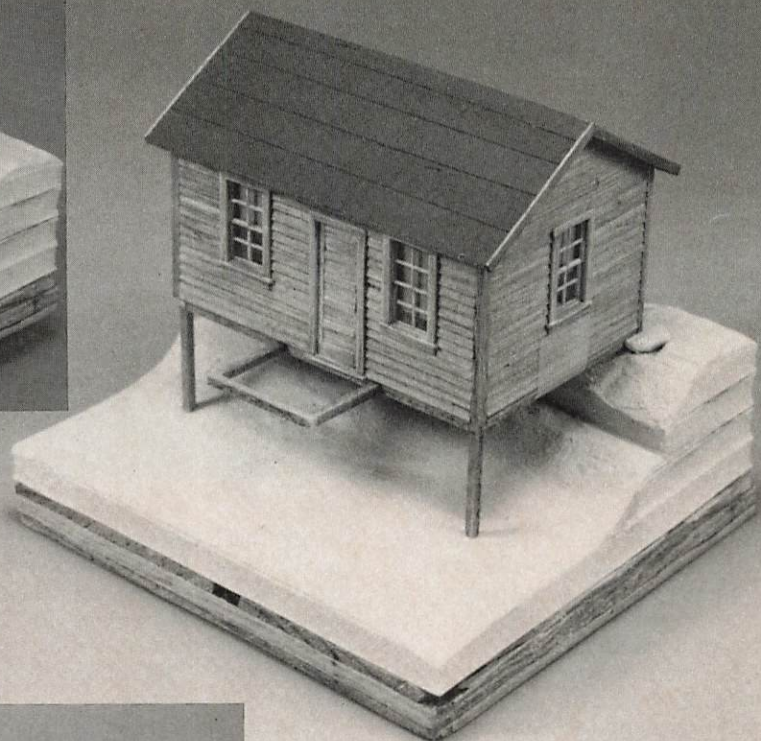
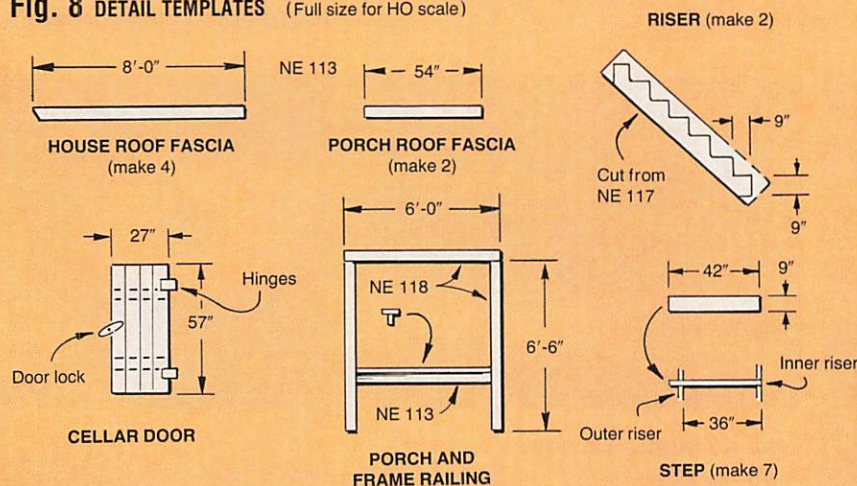


Fig. 8 DETAIL TEMPLATES (Full size for HO scale)



the soil — don't allow the solution to pool on the base.

Cut the cellar boards in various widths from the .020" x 5/32" stripwood, and glue them in place. Add the cellar door, along with its hinges and door stop, as shown in fig. 8.

Distress the cellar boards and door and add nail holes along the tops and bottoms, poking them in with a pin. As a way to simulate water damage caused by the cellar boards being in direct contact with the ground, touch the bottom of selected boards with a brushful of the ink solution. The stain will be drawn up into each board and realistically darken its lower half.

FINISHING THE MODEL

Glue the house atop the cellar frame and stones. Cut some more stripwood to

Products used

Alexander Scale Models
2705 chimney

Evergreen Scale Models
9007 .015" clear styrene

Floquil
110009 Primer

Grandt Line
5021 five-panel door
5030 27" x 48" double-hung windows
5095 plastic hinge assortment

Northeastern stripwood
111 .020" x .040" (1)
113 .020" x 1/16" (1)
115 .020" x 3/32" (1)
117 .020" x 5/32" (3)
157 .040" x 2" (1)
180 1/16"-square (2)
231 1/8"-square (1)
378 1/16"-square clapboard siding (1)

Polly S
410013 Grimy Black
410073 Rust

Testor
1260 Dullcote
1749 FS Flat Black enamel
1768 FS Flat White enamel

Miscellaneous
Durham's Water Putty
Elmer's Carpenter's Wood Glue for Darker Wood
Elmer's Glue-All
foam core board, 3/16" thick
graph paper
India ink
liquid dishwashing detergent
Plastruc Plastic Weld Cement
plywood, 3/8" thick
rubbing alcohol
two-part epoxy
typing paper

various widths, and add the porch floor. Then put on the remaining porch details. Build the frame from the template in fig. 7, and glue it in place at the same time you install the porch roof. Let the frame and roof dry for a couple hours and then tar-paper the porch roof.

Next, add the roof fascia and install the porch railing and stairs. An easy way to cut the stair risers is to cut out the template and tack-glue it on the stripwood. Cut the notches in the risers, then remove the paper template.

Build the stairs in place by first gluing on the inner and outer risers, adding the individual treads from top to bottom, and finishing with the railing. This sequence lets you make the stairs as rickety or as well-maintained as you want.

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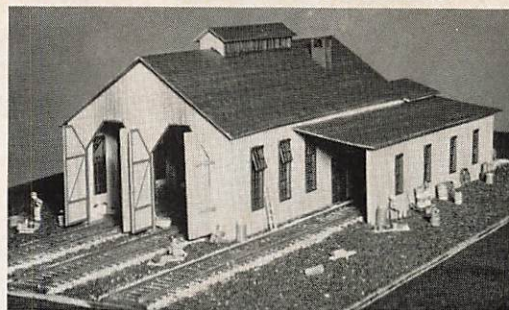
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With telltales in place, HO scale brakemen on the Boston & Maine West Hoosic Div. don't have to fear being unwillingly removed from atop a train.

A tale of telltales

Using fence material to build realistic telltales

BY LOU SASSI

PHOTOS BY THE AUTHOR

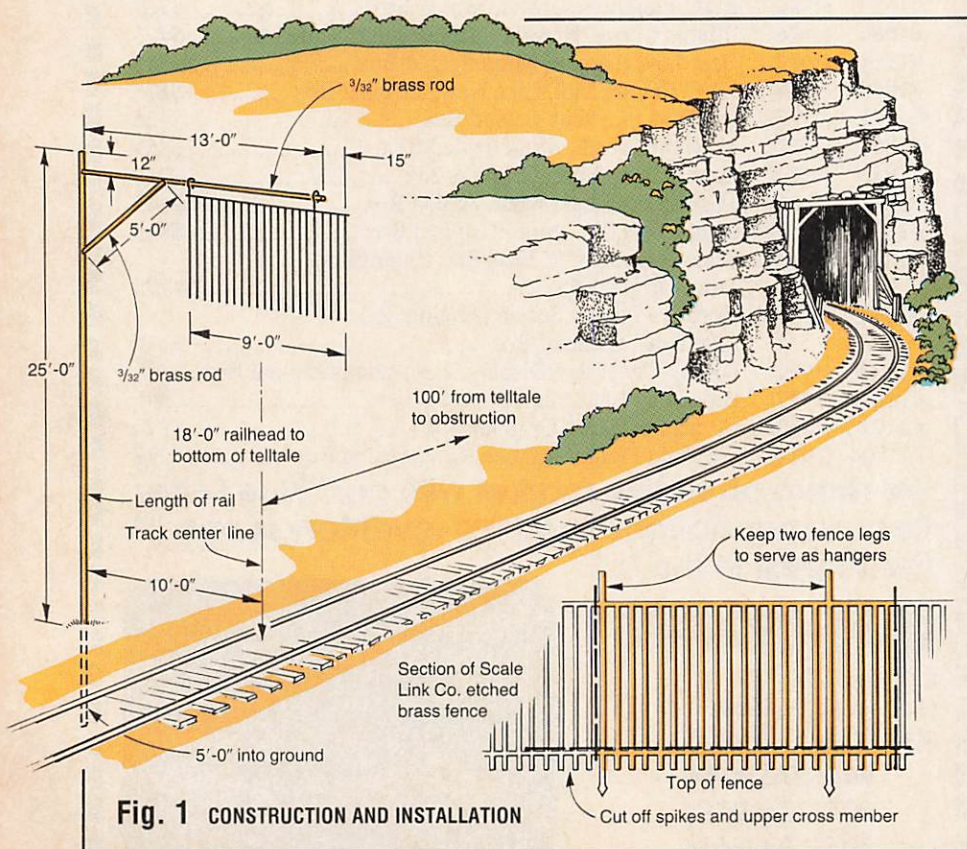


Fig. 1 CONSTRUCTION AND INSTALLATION

BACK IN the good ol' days of railroading (ask an old-time railroader, and he may argue about that description), when brakemen walked the roofs of their freight trains, telltales were installed at locations where overhead clearances were low enough to prematurely remove an unsuspecting individual from atop his mount. The telltale's ropes would brush against a trainman to warn him that it was time to duck. Highway overpasses, through bridges, and tunnels all necessitated such precautions. Although they varied somewhat from railroad to railroad, telltales were usually quite simple in their design.

DESIGN AND MATERIALS

Since my HO scale mid-1950s B&M West Hoosic Division includes a number of tunnels and bridges, I thought Philip R. Hasting's book *The Boston & Maine* would be a good place to look for a typical design used by that road. Sure enough, on page 162, Mogul no. 1402 was passing under a perfect example of a single-track telltale.

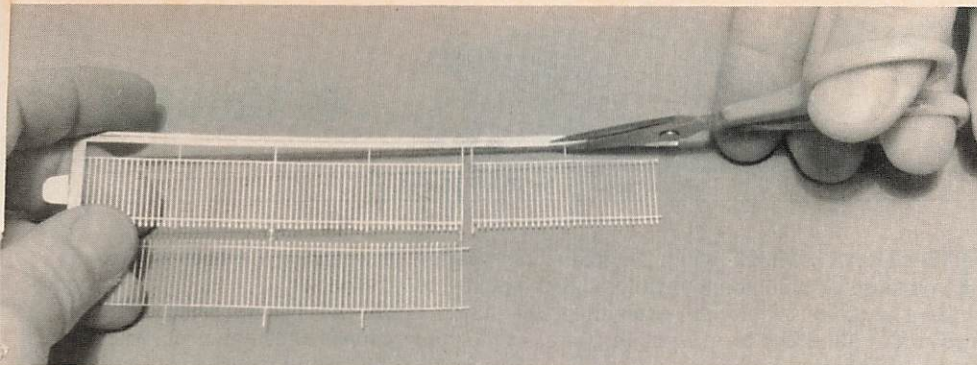
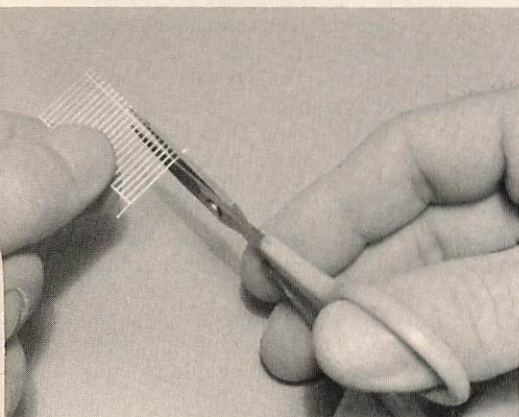


FIG. 2. TRIMMING THE FENCING

Above: Leave the fence legs intact when trimming the material. **Below:** Trim off the spikes at the top of the fence to form telltale ropes.



After studying the photo and approximating its scale, I came up with the dimensions shown in fig. 1. The B&M used rail for the post and what appears to be piping for the horizontal and diagonal members. I used code 55 rail (you could substitute code 70 or 83) for the post and 1/32" brass rod for the members.

The most difficult part of the project was finding something to represent the telltales themselves. The prototype used ropes or cables strung vertically from the horizontal member. While searching

through my scrap box, I discovered some leftover etched-brass fencing from the Scale Link Co. (Scale Link Centre, 54 Church St., Twickenham, TW1 3NR, England). By cutting off the upper horizontal cross member and the spikes of the individual posts (fig. 2) and leaving the former fence legs as hangers, I could quickly turn a nine-scale-foot length of fence into a string of 21 telltale cables. It's necessary to retain at least two fence legs per telltale to use as hangers.

CONSTRUCTION AND PAINTING

Since I needed a batch (nine to be exact) of these little devils, I decided that mass production was the best way to approach the project. Once the telltales were trimmed and set aside, I began construction of the supporting structures.

I first cut 30-foot lengths of rail and then 13- and 5-foot lengths of rod with a cutoff disk in my Dremel Moto-Tool (you can also use a razor saw). To make soldering easier, I spiked each assembly to a makeshift jig on a scrap of 1 x 2 pine. After placing some flux at the joints with a toothpick, everything was soldered together (fig. 3).

I removed the spikes and, while carefully holding the completed assemblies in one hand, bent the telltale hangers (the former legs of the fence) around the horizontal pipes. A drop of five-minute epoxy at the end of these pipes keeps the telltales from sliding off.

Once the telltales were attached, everything was washed in a bath of denatured alcohol, then airbrushed Floquil Grimy Black. After the paint had dried for a day, I drybrushed on some raw sienna tube acrylic paint to create a rusty look. The telltales were ready to install.

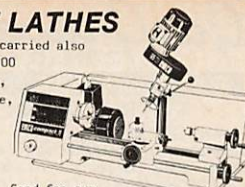
You'll notice that Scale Link Co. is located in England. Don't let this deter you from ordering the fencing. The price for spear point railings (item no. F29 G.W.R.) is £3.95, which is about \$7 American. One batch of fence material will yield 12 telltales. The easiest way to order is to send your VISA or MasterCard number with your order. Scale Link will bill your credit card for the material and postage costs. You can also obtain an international money order from your post office. ☐

FIG. 3. SOLDERING

Spike the parts to a piece of pine to hold them in place for soldering the telltale assembly.

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| WS | Amtrak EMD F9A & F9B | | 200 |
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Trains...



...of thought

Commentary by Tony Koester

THERE ARE TIMES when the main purpose of this commentary is to share a laugh or otherwise entertain. I also make an effort to inform, to pass along information or opinion as food for thought. And there are times when I try to point out an alternate way of looking at things. If the suggested vantage point stands out in stark contrast to conventional wisdom or the easiest way to go, so much the better. The goal is to stimulate thought, not offer trite answers or assurances.

One of the most controversial topics in discussions of our hobby is how to have fun. "Get serious," someone will say. "Ease up," someone else counters. Both are valid viewpoints, but neither is correct for all occasions.

For those who think some of us are becoming a little too serious about the hobby and our efforts to replicate full-size railroading, let me offer some feedback from a recent visitor to my home layout, the HO scale Allegheny Midland.

Visitor feedback is among the most treasured information I or any other layout owner can obtain, since it offers a fresh view of where we are and what we have yet to accomplish. The owner, and those patient folks who regularly help him or her build or operate the railroad, may have come to regard certain problems or deficiencies as acceptable, whereas to a visitor they are out of line.

In that spirit, I eagerly read a letter from a young friend whose business travels to the East Coast just happened to coincide with the date of an operating session on the Midland Road. He was, as I expected, an eager and knowledgeable participant.

He was pleased to find that the equipment worked "flawlessly," but he recalled that cars were derailed on two separate trains coming out of hidden staging tracks. Perhaps I'd backed the trains into their staging tracks too energetically and banged into a bumping post, or maybe I'd used the "0-5-0 switcher" to swap cars after the trains were in the staging yard and didn't get all the wheels on the rails.

Whatever the cause, I'll obviously have to pay more attention, as this is unacceptable. In fact, zero derailments is not only a standing goal, but an expectation; you can't have fun operating any model railroad if you're re-railing cars. I did install rerailers in two places on each staging track; perhaps

a rerailer between each length of flex-track would be better.

Aside from the human error that could have caused those staging track incidents, I've found that the usual cause of derailments is dirt buildup on wheels. Perhaps some wheel cleaning and some work with a wire brush in a motor tool to polish the metal wheel treads is in order. Polishing smooths the surface of the wheel, and according to several reports that cuts down on places where dirt can stick.

My friend liked the Dynatrol command-control system and had no problems with it. He noted that the relatively wide aisles were adequate, but could be congested if off-duty crew members became railfans or "daisy pickers" — that is, if they didn't retire to the crew lounge. His own layout plan includes five-foot aisles, but he has decided that allowing room for a crew lounge is a must. Assuming it takes more than two or three people to run your railroad, I agree.

He also noted that the car-card-and-waybill system was easy to understand, even for a first-time operator. He said he needed very little help from the veteran operators. And the degree of weathering seemed to be about right — not so light that the plastic look remained, nor so heavy that he wondered, "Why hasn't this been scrapped?"

Then he came to the crew. "It looked to me as though perhaps ten people ran the railroad, and they were as good a crew as I have ever seen anywhere. Please tell them that I enjoyed the session immensely! There were also another three or four who seemed to find time to run only a train or two, and maybe a few others that read more magazines than they ran trains." It was obvious to the visitor that restricting attendance to the minimum number of crew members required to run the railroad, allowing time for a break now and then, was an important objective.

Now let's look at this evaluation in light of "having fun." The visitor was having fun, lots of fun, until the aisles got congested or someone not on duty got in the way or otherwise distracted him. To his remarks, let me append those of several other crew members who happened to attend on nights when no more than eight operators showed up. "We seem to have the best sessions with the fewest people," they reported to me later.

So here's one prescription for a good operating session: Round up everyone who has expressed an interest in running the railroad and tell half or more of them to get lost. Are we having fun now?

Yet to do otherwise is to risk degrading the enjoyment of those who are "serious" — there's that word again — about operation. And these are the very people who *bring* something to the railroad rather than showing up expecting to be entertained by it. If synergy is to take place, if a session is to build and grow within itself until the railroad becomes far more than the sum of its physical parts, then you have to find "a few good folks" and foster a climate that will keep them coming back time after time.

"Ease up, Koester," I can hear a good friend from the South telling me. His operating sessions are designed to accommodate almost everyone who cares to walk in. By cleverly designing his railroad to be a series of essentially independent switching or terminal areas, he can apparently add or ignore jobs at will. A precise number of operators is not that critical.

The Midland Road offers some such flexibility. There are a number of coal extras, for example, that can be run or ignored. Since they sit on valuable staging tracks, however, any trains that are supposed to run into those tracks later in the session will also be adversely affected. Nothing that is unmanageable, however.

(The only thing I find unmanageable is a VCR that doesn't have on-screen programming. That's beyond me, although my wife and kids can handle it with their eyes shut. Maybe motivation has something to do with it. Jim Boyd was unimpressed with such excuses, however: "For a guy who installs a miniature radio station in each of his locomotives and has a power-supply center that looks like something out of a nuclear submarine, you sure seem to have a lot of trouble programming VCRs." Yup. If it were up to me, ours would still flash "12:00." I'd feel really stupid, except that electronics whiz Bruce Chubb confessed the same thing!)

I'm not about to go on record as saying that operating sessions must be as intense as the Allegheny Midland's for people to have fun. Ours would probably intimidate many newcomers, in fact, but then the AM wasn't designed as a teaching tool for neophytes. It occasionally serves as such, but the real goal is for a mythical Appalachian coal hauler to come to life before our eyes once each month. And for that to happen, some dedicated and experienced people have to get into the program.

We're not there yet, but we're edging closer. The closer we get, the more fun we have. And that's a fact. ☼

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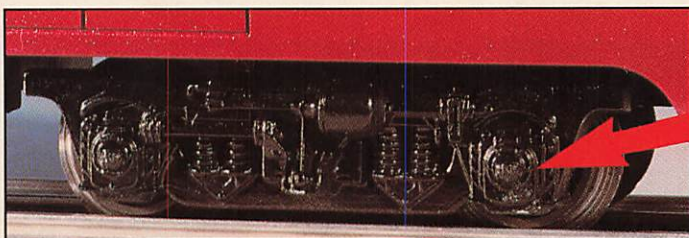
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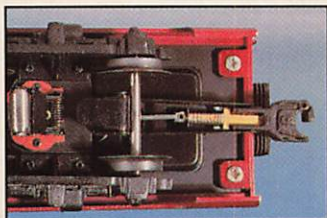
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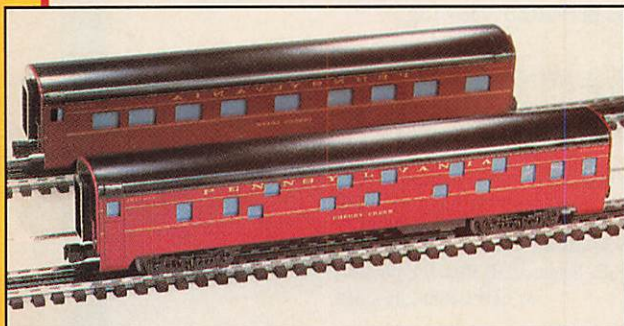
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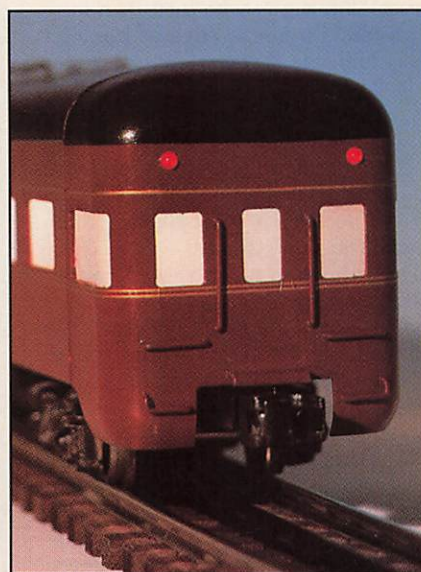


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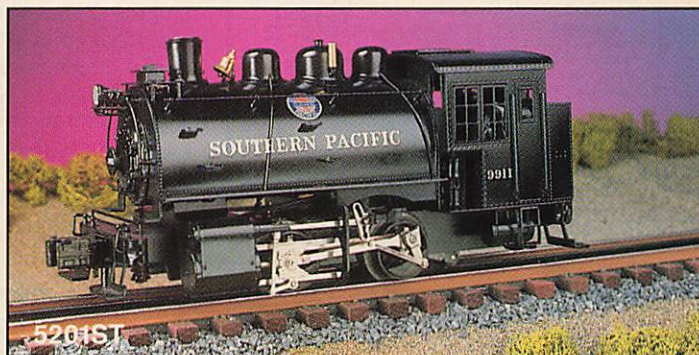
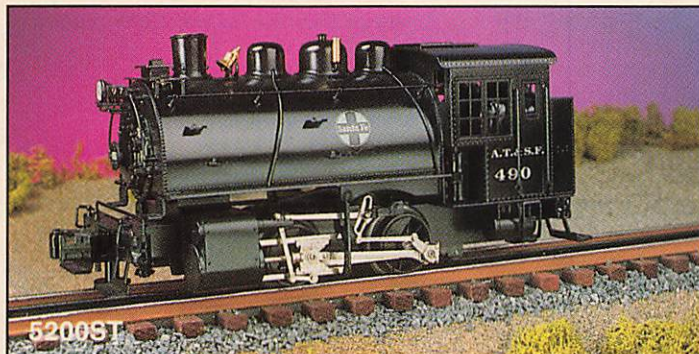
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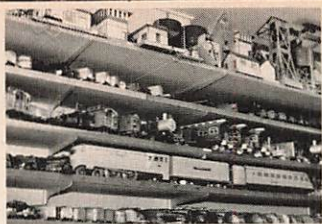
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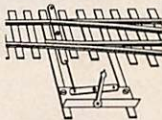
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Conducted by George Drury

American Shortline Railway Guide: Fourth Edition, by Edward A. Lewis, is an updated version of this reference book on today's railroading. As the title implies, the 8 1/4" x 5 1/2" softcover book contains information on more than 500 small railroads. The format makes it easy to use as a field guide, packed into a glove compartment or camera bag.

A short introduction to this 320-page book explains the recent proliferation of shortline railroads, outlines their impact on the railroad business, and defines the terms used in this reference. Two pages of tabular material are provided to identify the various shortline locomotives that appear in the railroad entries. These listings identify each locomotive by builder, construction date, model, horsepower, and configuration.

The balance of the book is made up of concise entries that provide information on the individual shortline railroads in alphabetical order. For each entry you'll find its mailing address, telephone and fax numbers, and reporting marks.

A brief description follows, noting the railroad's location, mileage, connections, and so forth; the principal commodities carried; past and current ownership; radio frequencies used for train operations; engine terminal location; locomotive roster (omitted for regionals); and number of freight cars in service. A listing of short lines that are no longer in existence, a glossary, and an index of short lines by state conclude this updated book. — *Jim Hediger*

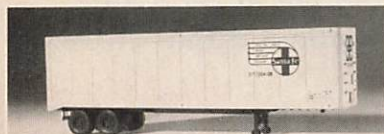
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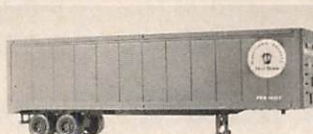
The Fabulous Franklin & South Manchester Railroad, by George Sellios, is a photo tour of one of today's most admired and talked-about HO scale model railroads. The impassioned creation of George Sellios, the F&SM has been featured three times in MODEL RAILROADER (April 1986, April 1987, and March 1990). The layout features big-city modeling on a grand scale never before attempted, and probably never before even contemplated.

George, who is also the owner and sole proprietor of Fine Scale Miniatures, has been working on the layout for only six years. However, he has

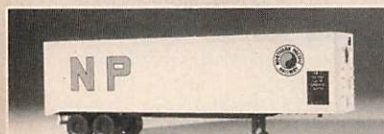
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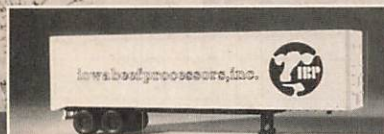
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averaged three months a year of eight-to-ten-hour days devoted solely to its construction. The other nine months are dedicated to producing a structure kit. This year's Fine Scale Miniatures project, though, is this 8 1/2" x 11" soft-bound book, rather than a kit.

Having decided to produce the book himself, George's next move guaranteed its visual success — he hired Dave Frary to take the photos, of which there are 84. They're run nice and large, and all of them are in color.

This 82-page book opens with a brief introduction. For the most part, however, the content is the photos and captions, which are full of solid information on George's modeling techniques. He's a master of painting and weathering, and you'll find plenty of ideas you can use on your own layout.

George is a builder and not long on words. You can read this book in less than an hour, so don't expect much on design principles or philosophy. George's long suit is structures and detailing. What you see is what you get, and Frary's urban panoramas are amazing. — *Jim Kelly*

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Getting the Most Out of Your Scanner, by Vincent Reh, is more than its title implies. This 59-page work explains what a scanner is, how it works, what it can do for you, how to upgrade its performance, and what to look for and to beware of when buying one.

A lot of this information was news to me. I've resisted buying and learning to use a scanner, preferring to simply wait next to the track with my camera for a while, usually until about five minutes before the train came (I'm years behind on filing slides anyway). This booklet tells me that with a scanner I might have been able to find out when the train was coming and perhaps why it was delayed.

This 8 1/2" x 11" work isn't fancy. *Getting the Most Out of Your Scanner* is the product of a word processor and a quick-print shop, held together with three staples in the left margin. (Some pretty respectable-looking books have started life in that form.) The information in this book is understandable and readable (and I know some respectable-looking books that can't make that claim). — *George Drury*

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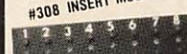
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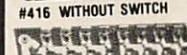
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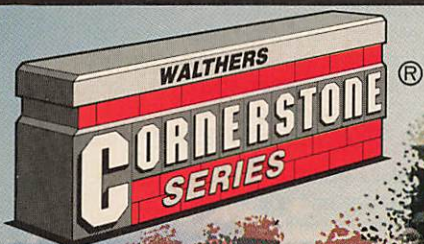
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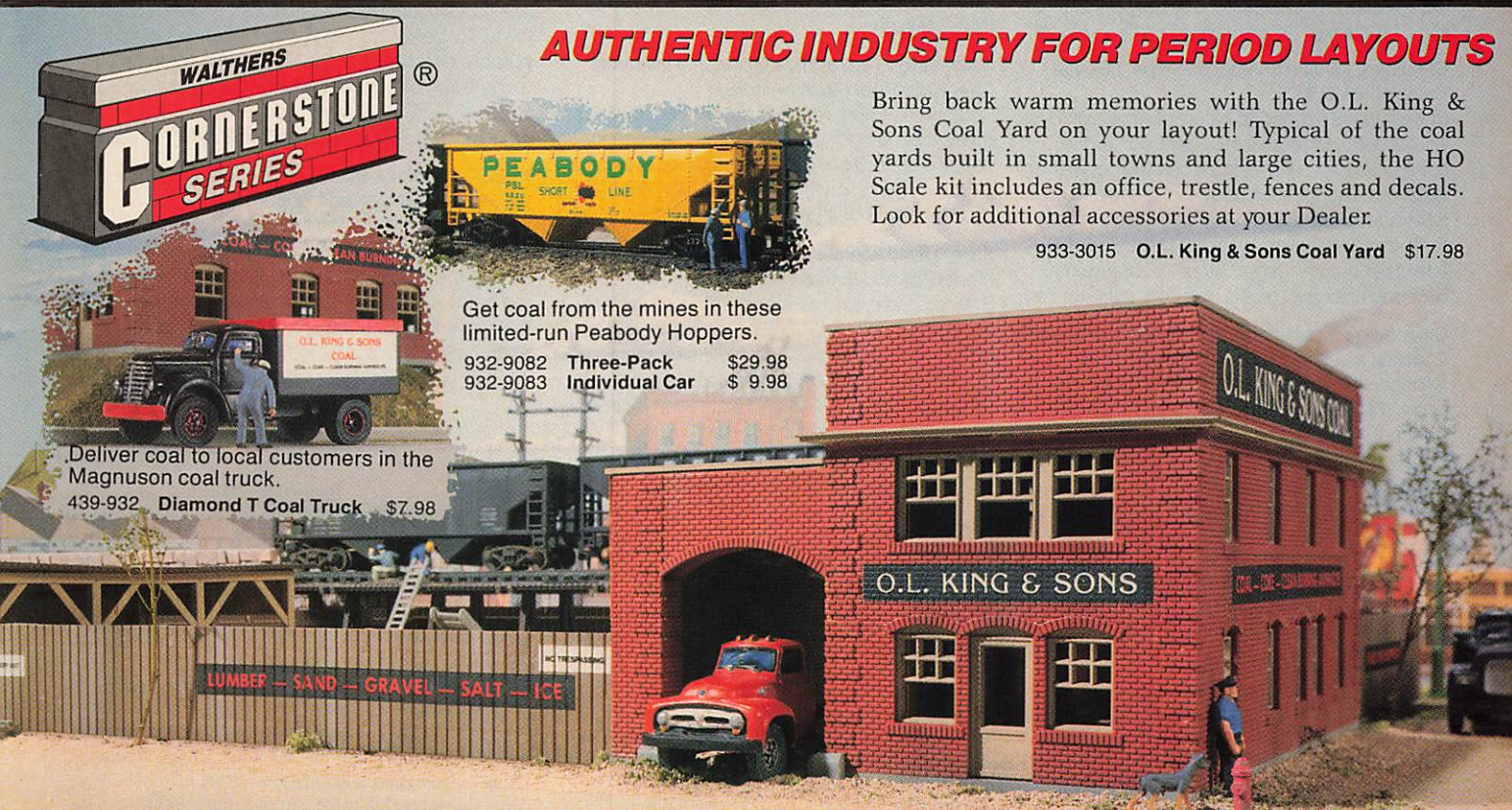
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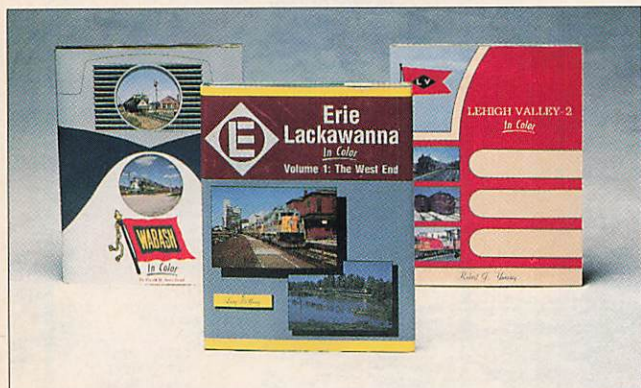


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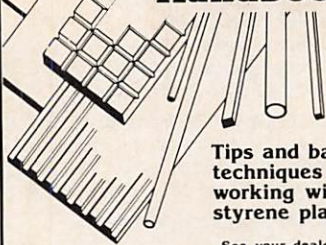
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In its 48 pages *Overhead and Underground* packs in lots of black-and-white and color photographs and track diagrams, all of which are essential for the transit enthusiast and modeler. It's very well done. — G. H. D.

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- First, Second and Third Prizes will be awarded three times: once from the November 1991 issue entries, once from the December 1991 entries and once from the January 1992 entries.
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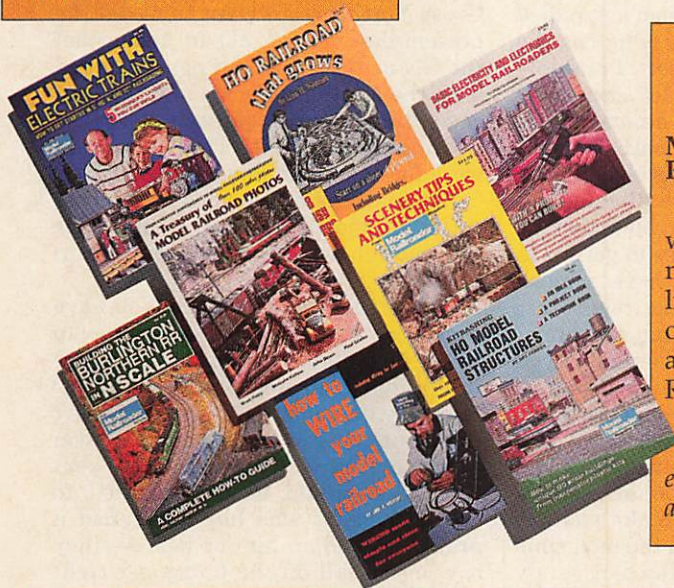
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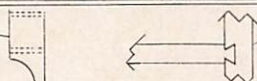
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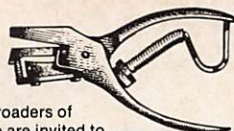
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Model railroaders of school age are invited to share photos, drawings, short features, and ideas in this department. Please send your items to "Student Fare," MODEL RAILROADER Magazine, 21027 Crossroads Circle, P. O. Box 1612, Waukesha, WI 53187.

Conducted by Rick Selby

OVER THE years, I have accumulated a sizable fleet of HO scale freight cars. As I built each car, I added Kadee couplers and wheelsets and a few miscellaneous detail parts. When I put each car "in service," it was complete and in full working order, ready to "ride the rails," so to speak. But, as can happen over time, things would often break or stop working.

I recently spent some time running my trains. As I went to get a few of my freight cars out of their boxes, it dawned on me that the number of "bad-order" cars was getting a little excessive:

"Nope, can't run this one, it's missing a knuckle spring. Can't use this one, the trucks don't pivot freely enough. Derails all the time. Can't run this one, too many broken or missing parts. What happened to this thing?"

And on it went. Most of the problems were easily fixed, but for some I hadn't managed to take the time to do so.

By the time I actually put a train together, I had an intimidating pile of cars in need of attention. (If I had just pulled these cars out of their carrying box the first time I noticed the defect, I probably would have fixed them a lot sooner and wouldn't have had to cart around dozens of out-of-service cars for months.)

When I got home, I decided that it was time to dive into the pile and get these cars working again. Most took no more than 5 or 10 minutes to get working properly, and I now have a much larger selection of working freight cars to choose from when running my trains.

The point of all this is that if you have a car that develops a defect of some kind, fix it right away. Fixing one or two cars once in a while is much simpler than sitting down to fix one or two dozen at once. If you're like me, setting the cars aside will only make you forget about the defect until the next time you go to run the car or locomotive. By that time, it will be too late to do anything about it.

I have devoted a special place in my carrying case to stick these bad-order cars as soon as I find them. This way I can repair them at the next opportunity. Hopefully this will allow me to get defective cars back in service in a timely manner. After all, when you put a lot of time into building something, it's a real waste to let it sit around unused because of a simple problem.

THE FIRST letter this month comes from **Bill Michalski**, of Glendale, Mo. Bill writes: "I am 13 years old and model the Missouri Pacific RR. I have just completed my 4 x 7-foot beginners layout in HO scale. Making mistakes seems to be the best way to learn, and I would like to share some suggestions to help all the newcomers out there:

"Most important is to design an interesting track plan. My railroad has a spur and a small yard, but it's still rather boring to operate.

"Build your railroad high off the ground. It's a lot easier to notice the details when you aren't looking at everything from an airplane's view.

"Ballast your track *before* you put down ground cover. If you don't, the ground cover will get all over the track and the ballast will get mixed in with the grass.

"Make your roads really smooth. I have to admit that the highway department would get a lot of calls about the roads on my layout!

"Improving your layout is one way to enjoy the hobby more. In addition, I'd recommend joining the historical society of the railroad you model. There are a lot of nice people in them who are just waiting to help you out. Sometimes you can even get a student discount on the monthly dues.

"Another idea is to model a railroad that's no longer around as if it still existed. For instance, if you like the Great Northern but want to model the present-day era, go ahead and model the GN as though it had never merged with the Northern Pacific and the Chicago, Burlington & Quincy to form the Burlington Northern. This idea could work for any fallen flag railroad.

"Other ideas are to model a tourist train, a regional railroad, a commuter railroad, or an old-time layout set in the 1800s."

Bill, thanks for the advice. You have some good suggestions. The best way to learn the different aspects of this hobby is through trial and error. If you attempt to do something and it doesn't come out the way you had hoped, you have an idea of what not to do next time! You would be hard-pressed to find a modeler who has never had a project go bad on him or her. As they say, if you fall off the horse, get right back up and try again. Besides, just think of all the fun you can have along the way!

OUR next letter comes from **David Hoovler**, of Butler, Pa. David, age 12, writes: "I am planning to build an N scale layout to fit under my bedroom window. The track plan is an exact, scaled-down version of the Hazel Green & Grant Valley RR featured in the April 1989 MODEL RAILROADER.

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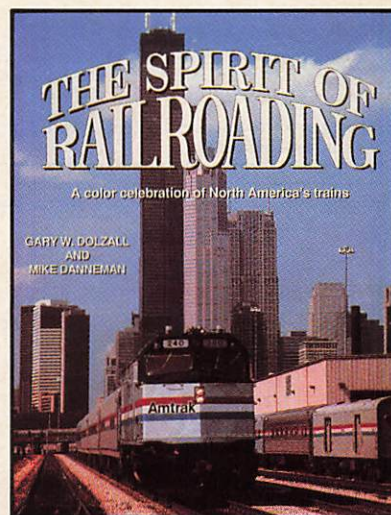
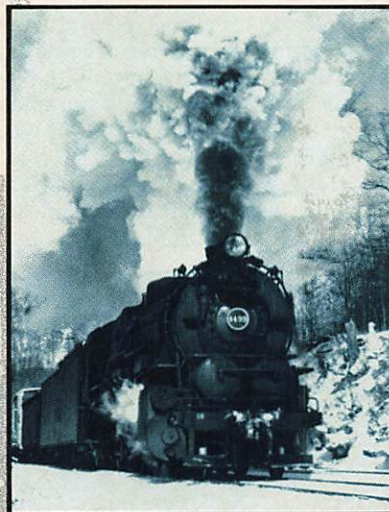
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"I'm planning for my version of the HG&GV to be set in the mid-1950s so I can run steam. I also plan to have a Geep or two to pull the mainline trains running through Hazel Green. I plan to call this mainline portion of the layout the Penn Midland.

"I would like to know if the words 'smooth running' and 'inexpensive' are compatible with regard to N scale steamers. Are any decent yet inexpensive steamers available, or will I have to change my plans and update the railroad to all diesels?

"Also, with this particular track plan, would you recommend supporting the track with the scenery, or should I use the 'cookie-cutter' method of benchwork construction? I'll probably use heavy-duty paper towels dipped in plaster draped over screen wire stapled to wooden supports."

In your situation, David, I would strongly suggest using the cookie-cutter method of benchwork construction to support your track. One of the most important aspects of building a model railroad is to construct a sturdy support system. It would be a shame to finish a great-looking layout only to have it sag or crack the first time you had to move it. Also, if you tried to lay your track right on top of the plaster scenery, I think you would have a hard time getting everything to remain level and

properly aligned. This may cause your rolling stock to track poorly (especially in N scale), and frustration might set in.

With the cookie-cutter method you have more control in locating and leveling the trackwork. It also provides an exceptionally strong anchor for the track as well as the scenery. You may want to look at the Kalmbach book *ABC's of Model Railroad* for additional information regarding benchwork construction.

As for good-running, inexpensive N scale steam locomotives, there are unfortunately not too many to choose from. The only good-running plastic steamer that immediately comes to mind is Con-Cor's 4-6-4 Hudson. This locomotive is manufactured by Kato for Con-Cor, and it runs well, though not quite as nicely as the newer Kato diesels. Otherwise, you'll probably have to consider brass engines to get smooth-running steamers. Even then, purchasing a brass model doesn't guarantee good performance, only a higher price.

NEXT is this letter from **Kevin Burk**, of Rancho Palos Verdes, Calif. "This is the first time I have written to Student Fare," Kevin begins, "although I have read the column several times. I'm building a new HO layout and have already designed a system so I could hang a 6 x 8-foot table from the rafters

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in our garage. This way I can lower it down when I want to work on it and raise it back up to allow for storage when I'm not using it. Now I'm trying to complete this system so I can finish laying track.

"I've noticed that people are having trouble replacing their horn-hook couplers with Kadees. What I do is simply cut off the mounting arm from the trucks or remove the body-mounted coupler box. Then, using shims made from styrene, I glue the Kadee no. 5 to the bottom of the car at the right height. I use super glue to hold everything together.

"I know some people say that it's better to screw the coupler box to the bottom of the car, but I can't see any reason for that. The couplers I have done show no signs of coming off. If it pleases you, though, just drill a hole through the car floor and screw the box on.

"I have noticed that steam locomotives are somewhat expensive compared to diesels, even in kit form. I'd like to buy a Roundhouse 0-6-0 and convert it to a 2-6-0 and add some additional detail parts. I would also like to relocate the rear driver set on this engine. Do you know where I can get new connecting rods for this locomotive?"

I suggest you browse through a copy of the new Wm. K. Walther's catalog, *The World of HO Scale - 1992*. You

may want to check and see what Precision Scale Co. (PSC) has to offer. If this doesn't turn up anything, ask your local hobby dealer for suggestions.

I, too, have glued the coupler box to the underframe or floor of a car to convert it to Kadees. Instead of super glue, I recommend that you use a plastic cement (such as Testor's) to glue the boxes to the car, as it will provide a better bond between the parts. The only real disadvantage I have found to mounting Kadees in this way is that you can't open the box for maintenance or replacement of the coupler. This fact aside, though, I have had no problems with couplers falling off my cars while in operation.

OBSERVATION: Over the last couple of months, I have received several requests for information about Ntrak, which provides specifications for building N scale modules. Those of you who don't have the room to build your own home layout may find that Ntrak provides a great alternative. Membership offers many benefits, including an excellent newsletter that's filled with useful information. Anyone interested in joining this group or wanting to learn more about the specifications for building N scale modules should write to Ntrak, 2424 Alturas Rd., Atascadero, CA 93422. Until next month. — Rick

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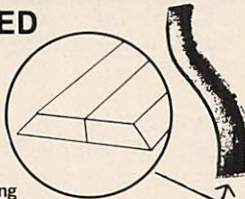
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| 777 | Rustic fence & gate | 2.39 |
| 778 | Cows & horses | 2.39 |
| 790 | Flat car girder load | 1.99 |
| 791 | Mill lumber | 2.39 |
| 793 | HO undec. figures (24) | 2.29 |
| 1 | Catalog (HO, N & O) | 75 |

Code 83 (N5):

| | | |
|-----|----------------------------------|------|
| 500 | 3' flex w/brown ties-10pc. min. | 2.69 |
| 501 | 3' flex w/black ties-10pc. min. | 2.49 |
| 550 | Rail joiners, NS C83, pkg. of 48 | 1.55 |

BOWSER MFG.

MFG. I.D.—B03

Loco Kits w/Tender:

| | | |
|--------|----------------------------|--------|
| 100200 | K-11 Pacific | 61.69 |
| 100300 | Challenger (no tender) | 106.99 |
| 150001 | Tender for Challenger | 24.49 |
| 100350 | Big Boy (no tender) | 133.99 |
| 100400 | USRA Mountain | 91.99 |
| 100430 | PRR M-1 mountain | 109.99 |
| 100450 | PRR M-1A | 111.99 |
| 100475 | Northern (4-8-4) | 98.99 |
| 100500 | K-4 pacific | 72.99 |
| 100600 | PRR E-6 Atlantic | 66.99 |
| 100700 | PRR I-1 Decapod | 68.59 |
| 100730 | SF USRA 2-10-2 | 102.99 |
| 100800 | L-1 mikado | 73.99 |
| 100900 | PRR H-9 Consol. | 71.99 |
| 100925 | Old Lady Consol. | 65.99 |
| 101000 | PRR T-1 Duplex | 122.99 |
| 101100 | Casey Jones | 66.99 |
| 113001 | FM baby trainmaster diesel | 43.99 |

Detail Kits, Items & Access.:

| | | |
|--------|------------------|-------|
| 100210 | For K-11 Pacific | 27.99 |
| 100325 | For Challenger | 62.99 |
| 100375 | For Big Boy | 71.99 |

BOWSER (B03), CONTD.

| | | |
|--------|-------------------------------|-------|
| 100410 | For Mountain | 55.99 |
| 100440 | For M-1 | 55.99 |
| 100460 | For M1-A | 60.99 |
| 100510 | For K-4 Pacific | 37.50 |
| 100610 | For E-6 Atlantic | 31.99 |
| 100710 | For I-1 Decapod | 27.99 |
| 100740 | For USRA 2-10-2 | 51.89 |
| 100810 | For L-1 Mikado | 31.99 |
| 100910 | For H-9 Consolidation | 23.99 |
| 101025 | For T-1 Duplex | 54.99 |
| 22 | Loco & car holder | 7.19 |
| 100514 | Headlight kit | 5.95 |
| CAT | Illustrated catalog, 180 pgs. | 9.95 |

*See our catalog for more!

Turntables & Accessories:

| | | |
|------|----------------------|-------|
| 7900 | Motor Kit for All | 48.99 |
| 7901 | Indexing Kit for All | 48.99 |
| 7914 | 14" Turntable | 62.99 |
| 7916 | 16" Turntable | 63.99 |
| 7918 | 18" Turntable | 64.99 |

CABOOSE INDUSTRIES

MFG. I.D.—C02

Rigid:

| | | |
|-----|-----------------------------------|------|
| 101 | Ground throw | 1.34 |
| 103 | Switch stand | 3.04 |
| 105 | Short pt. ground throw | 1.46 |
| 107 | Long pt. grnd. thrw. Atlas T.O.'s | 1.55 |

Sprung:

| | | |
|-----|-----------------------------------|------|
| 202 | Ground throw | 1.69 |
| 204 | Switch stand | 3.48 |
| 206 | Short pt. ground throw | 1.84 |
| 208 | Long pt. grnd. thrw. Atlas T.O.'s | 1.92 |

KADEE

MFG. I.D.—K02

| | | |
|------------|------------------------------|------------------|
| #4 | Couplers-2 pair/pkg. | 1.99 |
| #5 | Coupler, 2pr./pkg. | SALE 1.55 |
| #6,7,8 & 9 | Couplers, 2 pr./pk. | 2.15 |
| #13 | Test kit | 11.19 |
| #26,27,28 | Coup. w/delrin shnk 2 pr/pk. | 2.65 |
| #711 | Old time-2 pr./pkg. | 2.15 |
| 205 | Coupler height gage | 2.89 |
| 231 | Grease-em lubricant | 1.55 |
| 235 | Spring pic | 1.45 |
| 236 | Speedi driver cleaner | 6.40 |
| 246 | Tap & drill coup. mount. set | 4.60 |
| 307 | Electro-magnetic uncoupler | 5.89 |
| 308 | Super magnet | 2.75 |
| 321 | Delayed uncoupler, pkg. of 2 | 2.95 |
| 334 | Gluing jig | 1.89 |
| 341 | Track gage (code 70 & 100) | 1.72 |
| 500 | Bettendorf pr. | 3.79 |

KADEE (K02), CONTD.

| | | |
|-----|---------------------------------------|------|
| 501 | Arch bar pr. | 3.79 |
| 502 | Bettendorf w/coupler pr. | 5.30 |
| 503 | Arch bar w/coupler pr. | 5.30 |
| 505 | Conv. bolster-riv. 6 whl. pass. trks. | 2.29 |
| 508 | Conv. bolster-riv. 4 whl. pass. trks. | 2.29 |
| 509 | Andrews pr. | 3.79 |
| 510 | Andrews w/coupler pr. | 5.30 |
| 520 | Freight wheels, pkg. of 12 pr. | 4.69 |
| 521 | Pass. car wheels, pkg. of 12 pr. | 5.99 |
| 701 | Jig for nos. 4 & 5 coup. | 5.99 |
| 703 | Jig for nos. 6, 7 & 8 coup. | 5.99 |

Rolling Stock & Accessories:

| | | |
|-----|-----------------------------|-------|
| 101 | Disconnect log car w/logs | 14.95 |
| 102 | Skeleton log car w/logs | 18.90 |
| 103 | Truss log car w/logs | 23.90 |
| 104 | Logging Caboose | 14.25 |
| 107 | Disconnect log car w/o logs | 13.25 |
| LL | Extra logs, pkg. of 4 | 3.60 |

ATHEARN

MFG. I.D.—A08

Decorated-Provide Ord. No. & Road(s):

| | | |
|-------|-----------------|------|
| 1200W | 40' box car | 3.19 |
| 1749W | 40' quad hopper | 3.19 |

Freight Cars (Undec./Painted):

| | | |
|------|-------------------------|------|
| 1230 | 40' box car, tuscan red | 2.69 |
| 5455 | 34' hopper, black | 2.69 |
| 5456 | 34' hopper, box car red | 2.69 |

ENGLISH MRR

MFG. I.D.—E07

0-4-0 Dockside (RTR):

| | | |
|--------|---------------------------|-------|
| 3-207W | Undec. Penn., UP, B&O, SF | 33.90 |
| 3-217 | Valve Gear Kit | 14.99 |
| 3-218 | Super Detail Kit | 14.99 |

Mechanisms:

| | | |
|-------|------------------------------|-------|
| 3-200 | For Bachmann K-4 | 51.90 |
| 3-201 | For Bachmann 2-8-0 Consol. | 39.90 |
| 3-202 | For Bachmann 4-8-4 'J' | 55.90 |
| 3-204 | For Bachmann/Lionel GS-4 | 37.90 |
| 3-205 | For Bachmann Niagara 4-8-4 | 37.90 |
| 3-206 | For Bachmann North/Old 4-8-4 | 37.90 |

See Our Catalog Supplement for Metal Box Car Kits!

IHC

MFG. I.D.—I02

| | | |
|-----|---------------------------------|------|
| 602 | Interlocking tower | 9.79 |
| 705 | Mainline tool shed & water pump | 7.99 |
| 707 | Funeral home | 9.09 |
| 708 | Store front/apart. bldg. | 8.49 |

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The Finest of the Model Railroad Mail Order Organizations...

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CALIFORNIA MODELS LUMBER YARD



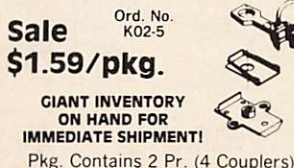
Kit
Sale \$21.75 Ord. No. C04-563
Scale Lumber (C04-565) \$3.40

MODEL POWER REMOTE SWITCH



Nickel Silver
Complete w/No.4 Turnout, machine, control,
wire and more!
Ord. No. M13-5044 LH **Sale \$5.49**
M13-5144 RH

KADEE NO. 5 COUPLER



Ord. No. K02-5
Sale \$1.59/pkg.
GIANT INVENTORY
ON HAND FOR
IMMEDIATE SHIPMENT!
Pkg. Contains 2 Pr. (4 Couplers)

WOODLAND SCENICS (W04), CONTD.

| | | |
|-----|----------------------------------|-------|
| 217 | Service truck (1914 "Diamond T") | 5.59 |
| 218 | Grain truck (1914 "Diamond T") | 5.59 |
| 228 | Motorcycles and sidecar | 3.19 |
| 233 | Bulldozer-CAT D-7 tractor | 5.59 |
| 234 | Motor grader-CAT #112 grader | 5.59 |
| 235 | Track type loader-CAT #6 | 5.59 |
| | traxcavator | 7.99 |
| 237 | Back hoe-INSLEY Model "K" | 6.39 |
| 242 | Tank truck "Diamond T" | 7.19 |
| 244 | Flat bed & tractor "Diamond T" | 7.99 |
| 246 | Logging cruiser & tractor | 6.39 |
| 247 | Dump truck (federal) | 13.99 |
| | Miscellaneous: | |
| 130 | Smiley's tow service | 14.59 |
| 926 | Landscape kit-complete | |

MOUNTAINS IN MINUTES MFG. I.D.—M16

| | | |
|-----|---------------------------|-------|
| 701 | Landscape kit—complete | 24.99 |
| 704 | Liquid latex—32oz. | 12.75 |
| 501 | Canyon wall—flex rock | 8.49 |
| 502 | Embankment wall—flex rock | 8.49 |
| 860 | Multi-scale mountain | 27.99 |
| 890 | Stream, falls & lake | 50.99 |

CON-COR MFG. I.D.—C10

| | | |
|-----------------------------|--------------------------------|-------|
| No. Sets of 12 Kits: | | |
| 504 | Chessie hopper | 46.49 |
| 505 | UP hopper | 46.49 |
| 506 | N&W hopper | 46.49 |
| 552 | Conrail 60' box car, 2 schemes | 69.99 |

BACHMANN MFG. I.D.—B01

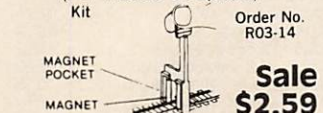
| | | |
|----------------------|--------------------------------|-------|
| Steam Locos: | | |
| 510W | American: UP or JUP | 29.99 |
| 515W | Prairie: UP or NYC | 29.99 |
| 530W | Consolidation: SF, Read. or GN | 35.99 |
| 545W | Mikado: UP or B&O | 43.99 |
| 560W | Texas: SF, Penn. or T&P | 52.99 |
| 580W | Northern: SF or Burl. | 52.99 |
| Diesel Locos: | | |
| 600W | Plymouth Switch: SF or Burl. | 11.99 |
| 605W | Cable Car: Hyde or Mason | 18.99 |
| 612W | GP50: UP, SF, BN or EL | 18.99 |
| 615W | F9: UP, SF, Amtr. or Chess. | 14.29 |
| 635W | GP40: UP, SF, BN or CR | 17.99 |
| 640W | U36B: SF, RI or Chess. | 17.99 |
| 670W | SD40-2: UP, SF or SCL | 23.99 |

| | | |
|-------------------------|--------------------------------|-------|
| Sets (Complete): | | |
| 91 | Diesel frt. exp. (chrome loco) | 22.99 |
| 175 | Golden Spike | 48.99 |
| 180 | Iron Horse | 40.99 |
| 182 | Smokey Mtn. Special | 46.69 |
| 250 | Overland Ltd. | 84.49 |
| 275 | Old Time freight | 51.99 |
| 276 | Old Time passenger | 51.99 |
| 340 | Empire Builder | 59.99 |

MICROSCALE DECALS DECALS:

| | | |
|--------------------------------|-------|----------|
| HO | | 3.19 |
| HO Minical | | 1.59 |
| N | | 2.69 |
| O (single sheet) | | 3.39 |
| O (2 sheet pkg.) | | 5.99 |
| Trim film, stripes or checkers | | ea. 1.19 |
| Finishing Products: | | |
| M16 Micro Weld | | 2.19 |
| All others | | 1.59 |
| M04-CAT Ill. catalog | | 3.00 |

RIX UNCOUPLING TOOL (For Kadee Couplers)



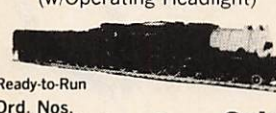
Kit
Order No. R03-14
Sale \$2.59
• Simple operation
• Works anywhere on the layout!!

ATLAS UNDER-THE-TABLE SWITCH MACHINE



Order No. A09-65 **Sale \$3.49**
For use with Atlas turnouts only.

BACHMANN "N" NORTHERN 4-8-4 (w/Operating Headlight)



Ready-to-Run
Ord. Nos. B01-58052 Santa Fe **Sale \$36.99**
B01-58060 Reading
B01-58066 Burlington

MODEL POWER "N" F-40PH (Operating Headlight)



Ord. No. M13-7540W
Sale \$16.99 PROVIDE ORD. NO. & ROADS
Amtrak, GO. SF, Mass Transit
M38-7540X Our Road Choice! \$12.99

MODEL POWER "N" FREIGHT CARS



6 Asst' for \$9.99
Assortment Ord. No. M13-1450

WEAVER "O" RS-3



Ord. Nos. W06-5000W (2 rail) **SALE \$119.90 ea.**
W06-5500W (3 rail) * **SALE \$139.90 ea.**
Undecorated, Penn., Conrail, Reading (grn/gld), RG, N&W, WM, D&H, SF, Southern, Cent. NJ, UP, NKP, BN, L&NE, C&NW, Reading (yellow/gn)
• Incl. instructions for use on Lionel track

IHC "O" HOMES OF YESTERDAY



300-1 300-2 300-3 300-4 300-5
Mfg. ID-I02 **GET ALL FIVE!**
Sale \$19.99 each

IHC "O" 2 STALL ENGINE HOUSE



Kit
Sale \$23.99 Ord. No. I02-300-100

SHOW-OFFS



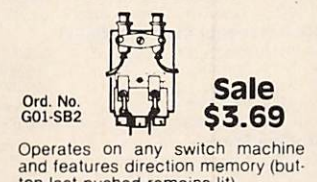
Ord. No. S24-2
Case of 4 Sale \$27.99
• 28" length covers most "O" locos
• Vacu-Form molded clear plastic w/card-board base

NJ INTERNATIONAL SWITCH MACHINE



w/DPDT Contacts
Ord. No. N02-6000 **Sale \$7.69**

GH PRODUCTS SUPERBUTTONS



Ord. No. G01-SB2 **Sale \$3.69**
Operates on any switch machine and features direction memory (button last pushed remains lit)

BADGER COMPRESSORS



For use w/any make air brushes; 1/12 HP provides 25 PSI; Never requires lubrication
B02-180-1 Cyclone I (shown) **\$119.99**
B02-180-11 Cyclone w/auto on-off **\$56.99**
B02-180-22 1/8HP w/reg. & gage **\$224.99**
See our catalog for more!

PERMA-SCENE By Permacraft Products



Create hills, valleys, tunnels & mountains. Simply mix w/water and apply to your layout.
Ord. Nos. P06-101 10oz. box-covers 8 sq. ft. \$3.19
P06-102 24oz. box-covers 22 sq. ft. \$4.59

BADGER SPRAY GUN SET



Sale \$44.99
Order No. B02-200-3
Includes #200 gun, hose, jars and propel

DREMEL MOTO TOOL SET



Sale \$67.99
Ord. No. D05-3950
Complete w/variable speed tool, 40 acc. & storage case. See our catalog for more Dremel
Super kit w/flex shaft (D05-3952) \$79.99

MODEL DIE CASTING MFG. I.D.—M11

| | | |
|------------------------------|---------------------------------|-------|
| Sets and Assortments: | | |
| 690 | Virg. 70 ton hopper, 12#s | 38.99 |
| 724-2 | Erie 70 ton hopper, 12#s | 38.99 |
| 728 | Coors 36' bl. brd. reefer, 12#s | 61.99 |
| 731 | CSX ribside hopper, 12#s | 38.99 |
| 738 | Frisco hopper car, 12#s | 36.99 |
| 751 | N&W 40' box car, 12#s | 38.99 |
| 754 | C&NW 2-bay hopper, 12#s | 62.99 |
| 756 | Susq. 40' box car, 12#s | 45.99 |
| 760 | Reading hopper, 12#s | 47.99 |

Large selections



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| | | |
|------------------|---------------------------|-------|
| Trackage: | | |
| 1000 | 12" straight, ea. pc. | 4.10 |
| 1000BX | 12" straight, box of 12 | 47.99 |
| 1002 | Rerailer | 12.99 |
| 1031 | III. bumper | 8.59 |
| 1056 | Electronic uncoupler trk. | 33.99 |

LGB "G" (L01), CONTD.

| | | |
|--------|------------------------------|--------|
| 1060 | 24" straight, ea. pc. | 7.99 |
| 1100 | 24" R curve (30°), ea. pc. | 4.10 |
| 1100BX | 24" R curve, box of 12 | 47.99 |
| 1102 | 1/2-24" R curve (15°) | 4.39 |
| 1104 | 1/4-24" R curve (7.5°) | 4.39 |
| 1200 | Man. switch-RH, 30°/24" R | 26.99 |
| 1205 | Rem. switch-RH, 30°/24" R | 39.99 |
| 1210 | Man. switch-LH, 30°/24" R | 26.99 |
| 1215 | Rem. switch-LH, 30°/24" R | 39.99 |
| 1226 | Rem. dbly. slip, 22.5°/30" R | 107.99 |
| 1236 | Rem. 3-way, 30°/24" R | 107.99 |
| 1300 | 30° crossing, 24" R | 32.69 |
| 1500 | 30" R curve (30°) | 7.39 |
| 1600 | 46" R curve (22.5°) | 7.69 |
| 1605 | Rem. switch-RH, 22.5°/46" R | 49.99 |
| 1615 | Rem. switch-LH, 22.5°/46" R | 49.99 |

Track Accessories:

| | | |
|--------|---------------------------------|--------|
| 1000-1 | Rail joiners-metal (pkg. of 10) | 4.59 |
| 1000-3 | Track tie strip-12" | 1.69 |
| 1000-5 | Rail only-60" (pkg. of 20) | 137.50 |
| 1001 | Track planning template | 30.99 |
| 1015K | Reversing loop set | 35.99 |
| 1015T | Double insulating track | 17.69 |
| 1015U | Single insulating track | 17.69 |
| 1150 | Track locks, pkg. of 28 | 3.49 |
| 5016 | Track power term. w/60" wire | 8.99 |
| 5026 | Rail joiners-insulated (4) | 4.99 |
| 5175 | Switch control box (orange) | 42.25 |
| 5180 | Power control box (yellow) | 40.99 |

ARISTOCRAFT "G"

MFG. I.D.—A15

Deluxe Sets (w/smk., lights & more):

| | | |
|-------|-----------------------------|--------|
| 29051 | GN freight | 259.99 |
| 29052 | Penn. passenger w/interiors | 335.99 |
| 29053 | B&O passenger w/interiors | 335.99 |
| 29054 | V&T passenger w/interiors | 335.99 |

Locos: (specify ord. no. & road/s)

| | | |
|--------|-----------------------|-------|
| 21001W | Rodgers 2-4-2 Pass. | |
| | Penn., D&RG, B&O, V&T | 89.99 |
| 21101W | Rodgers 2-4-2 Frt. | |
| | CB&Q, GN, SP, SF | 89.99 |

| | | |
|--------|--|-------|
| 21901W | Tender w/Sound: Penn., D&RG, B&O, V&T, Burl., GN, SF, SP | 51.99 |
|--------|--|-------|

| | | |
|--------|------------------------------|-------|
| 21201W | 0-4-0: Penn., WP or NY, NH&H | 73.99 |
|--------|------------------------------|-------|

| | | |
|--------|--|--------|
| 21401W | 4-6-2 Pacific: Penn., B&O, Milw., CNJ, So. | 295.99 |
|--------|--|--------|

| | | |
|--------|-------------------------|--------|
| 22001W | FA Diesel: NYC, B&O, SP | |
| | UP, Penn., RG, SF | 149.99 |

| | | |
|--------|-------------------------|--------|
| 22051W | FB Diesel: NYC, B&O, SP | |
| | UP, Penn., RG, SF | 149.99 |

| | | |
|--------|--------------------------|--------|
| 22101W | U25B: SP, Chess., NH, SF | 162.99 |
|--------|--------------------------|--------|

Pass. Cars: (spec. ord. no. & road/s)

| Pass. cars: (spec. ord. no. & road/s) | | |
|---------------------------------------|---------------------------|-------|
| Penn., B&O, V&T, D&RG, SF, SP | | |
| 31001W | Coach, w/interior | 81.99 |
| 31101W | Combine, w/interior | 81.99 |

Frt. Cars (spec. ord. no. & road/s):

| | | |
|--------|--|-------|
| 41001W | Gondolas: Soo., CP, ME Cent., VT, GM&O, B&M, Penn. | 28.99 |
| 41101W | Covered Gondola: Burl., NYC, P&LE, SP | 36.99 |

| | | |
|--------|--|-------|
| 42101W | Caboose: GN, Burl., RG, Penn., SF, S&F, V&T, B&O | 81.99 |
|--------|--|-------|

| | | |
|--------|---------------------------------------|-------|
| 42201W | Bobber Caboose: Penn., WP or NY, NH&H | 21.99 |
|--------|---------------------------------------|-------|

| | | |
|-------|-------------------------|------|
| 29300 | Smoke stack for caboose | 9.39 |
|-------|-------------------------|------|

| | | |
|--------|--|-------|
| 46001W | Box Cars: Rutl., RG, SF, Penn., Ga., GN, TIMK, B&O, Eagle, UP, REA | 44.99 |
|--------|--|-------|

| | | |
|--------|--|-------|
| 46101W | Stock Car: Armour or C&NW, UP, CN, D&RG, SF, So. | 44.99 |
|--------|--|-------|

| | | |
|--------|--|-------|
| 46201W | Reefer: PFE, Schlitz, Pabst, Heinz, REA, Pluto, Borden | 44.99 |
|--------|--|-------|

| | | |
|--------|------------------|-------|
| 46301W | Flat Car: WM, GN | 27.99 |
|--------|------------------|-------|

| | | |
|--------|--------------------|-------|
| 46401W | Flat Car: NP or CP | 32.99 |
|--------|--------------------|-------|

| | | |
|--------|--|-------|
| 46501W | Flat Car w/Piggyback Trlr.: REA, SF, B&O, SP | 44.99 |
|--------|--|-------|

| | | |
|-------|------------------|-------|
| 46601 | REA truss reefer | 27.99 |
|-------|------------------|-------|

Track & Accessories:

| | | |
|---------|-------------------------|-------|
| 11000 | 12" straight, ea. pc. | 2.49 |
| 11000BX | 12" straight, box of 12 | 26.69 |
| 11060 | 24" straight, ea. pc. | 4.59 |
| 11060BX | 24" straight, box of 12 | 53.69 |
| 11070 | 36" straight, ea. pc. | 6.89 |

ARISTOCRAFT "G" (A15),

| | | |
|-----------|-------------------------|-------|
| 11070BX | 36" straight, box of 12 | 79.99 |
| A34-3540X | 24" R curve, ea. pc. | 2.49 |
| 11100BX | 24" R curve, box of 12 | 26.69 |
| 11900 | Rail joiner, pkg. of 12 | 3.99 |
| 12091 | Layout ext. set #1 | 36.99 |
| 12092 | Layout ext. set #2 | 52.99 |

Switch Tracks & Accessories:

| | | |
|------------------|--|--|
| "N" SCALE | | |
| ATLAS "N" | | |

"N" SCALE

ATLAS "N"

MFG. I.D.—A09

Track & Switches:

| | | |
|-------|------------------------|-------|
| 2580* | #4 remote switch-left | 7.65 |
| 2581* | #4 remote switch-right | 7.65 |
| 2582* | #4 manual switch-left | 5.25 |
| 2583* | #4 manual switch-right | 5.25 |
| 2584 | #6 remote switch-left | 11.99 |
| 2585 | #6 remote switch-right | 11.99 |

| | | |
|-------|-----------------------------------|------|
| 2500* | 30" fix. trk. (min. ord.—15 pcs.) | 1.20 |
|-------|-----------------------------------|------|

| | | |
|------|------------------------|------|
| 2501 | 5" str. track-box of 6 | 1.33 |
|------|------------------------|------|

| | | |
|------|------------------|------|
| 2509 | Track assortment | 1.60 |
|------|------------------|------|

| | | |
|------|-----------------------------|------|
| 2510 | 9-3/4" curv. track-box of 6 | 1.33 |
|------|-----------------------------|------|

| | | |
|------|----------------------------------|------|
| 2511 | 1/2"-9-3/4" curv. track-box of 6 | 1.19 |
|------|----------------------------------|------|

| | | |
|------|--------------------------|------|
| 2520 | 11" curv. track-box of 6 | 1.33 |
|------|--------------------------|------|

| | | |
|------|-------------------------------|------|
| 2521 | 1/2"-11" curv. track-box of 6 | 1.19 |
|------|-------------------------------|------|

| | | |
|------|--------------------------|------|
| 2526 | 19" curv. track-box of 6 | 1.33 |
|------|--------------------------|------|

| | | |
|------|-------------------|------|
| 2532 | Rerailer-box of 3 | 1.19 |
|------|-------------------|------|

| | | |
|------|--------------------------|------|
| 2535 | N.S. rail joiners 48/pkg | 1.19 |
|------|--------------------------|------|

| | | |
|------|------------------|------|
| 2536 | Bumper pkg. of 2 | 1.19 |
|------|------------------|------|

| | | |
|------|-----------------------------|-----|
| 2538 | Plastic rail joiners 24/pkg | .63 |
|------|-----------------------------|-----|

| | | |
|------|-------------------------|------|
| 2540 | Track nails-approx. 400 | 2.19 |
|------|-------------------------|------|

| | | |
|------|--------------------|------|
| 2541 | Pier set - 12 pcs. | 4.59 |
|------|--------------------|------|

| | | |
|------|------------------------|------|
| 2543 | Bridge piers-card of 3 | 1.79 |
|------|------------------------|------|

| | | |
|------|---------------|------|
| 2546 | Warren bridge | 2.09 |
|------|---------------|------|

| | | |
|------|-------------|------|
| 2547 | Deck bridge | 2.09 |
|------|-------------|------|

| | | |
|------|--------------|------|
| 2548 | Plate bridge | 2.09 |
|------|--------------|------|

| | | |
|-------|--------------|------|
| 2569* | 90° crossing | 3.55 |
|-------|--------------|------|

| | | |
|------|---------------------|------|
| 2539 | Terminal joiners-pr | 1.60 |
|------|---------------------|------|

*For brown ties, add ".BR" to Stk. No. (Prices slightly higher)

Miscellaneous:

| | | |
|-------|----------------------|------|
| 22001 | Freight trucks (pr.) | 2.49 |
|-------|----------------------|------|

| | | |
|------|----------------------------|------|
| 2801 | Telephone poles, box of 12 | 1.35 |
|------|----------------------------|------|

| | | |
|------|---------|------|
| 2826 | Viaduct | 2.89 |
|------|---------|------|

Rolling Stock:

| | | |
|------|----------------------------------|-------|
| 3000 | Assorted freight cars, pkg. of 6 | 19.99 |
|------|----------------------------------|-------|

MORE ATLAS "N" ROLLING STOCK

YOUR ROAD CHOICE

(Provide Ord. No. and Road)

| | | |
|-----------|-----------------|-------|
| A09-3200W | Ore car, 70 ton | 4.39* |
|-----------|-----------------|-------|

| | | |
|-----------|----------------------|-------|
| A09-3230W | Tank car, "beer can" | 4.39* |
|-----------|----------------------|-------|

| | | |
|-----------|----------------|-------|
| A09-3260W | Hopper, 90 ton | 4.39* |
|-----------|----------------|-------|

| | | |
|-----------|-----------------------|-------|
| A09-3300W | Box car, 40' plg. dr. | 4.39* |
|-----------|-----------------------|-------|

| | | |
|-----------|----------------|-------|
| A09-3260W | Hopper, 90 ton | 4.39* |
|-----------|----------------|-------|

| | | |
|-----------|-----------------------|-------|
| A09-3300W | Box car, 40' plg. dr. | 4.39* |
|-----------|-----------------------|-------|

| | | |
|-----------|-----------------------------|-------|
| A09-3400W | Box car, 40' (3400 to 3418) | 4.39* |
|-----------|-----------------------------|-------|

| | | |
|-----------|---------------------|-------|
| A09-3500W | Gondola, 42' w/load | 4.39* |
|-----------|---------------------|-------|

| | | |
|-----------|----------------|-------|
| A09-3520W | Stock car, 40' | 4.39* |
|-----------|----------------|-------|

| | | |
|-----------|-------------------------|-------|
| A09-3540W | Stock car, 50' dbl. dr. | 4.39* |
|-----------|-------------------------|-------|

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|-----------|-----------------------|-------|
| A09-3600W | Box car, 50' dbl. dr. | 4.39* |
|-----------|-----------------------|-------|

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|-----------|------------------------|-------|
| A09-3650W | Reefer, 50' mechanical | 4.39* |
|-----------|------------------------|-------|

| | | |
|-----------|-------------------|-------|
| A09-3700W | Hopper, 4 bay ACF | 5.29* |
|-----------|-------------------|-------|

| | | |
|-----------|--------------------------|-------|
| A09-3720W | Hopper, 3 bay 90/100 ton | 4.39* |
|-----------|--------------------------|-------|

| | | |
|-----------|-------------------------|-------|
| A09-3740W | Flat car, 48' w/trailer | 5.29* |
|-----------|-------------------------|-------|

| | | |
|-----------|---------------------------|-------|
| A09-3770W | Piggyback flat w/40' trl. | 5.29* |
|-----------|---------------------------|-------|

| | | |
|-----------|-------------------|-------|
| A09-3800W | Flat car w/stakes | 4.39* |
|-----------|-------------------|-------|

*Applies to most, but not all available roads due to varying mfg. "list" prices.

OUR ROAD CHOICE

(Provide Ord. No. as Shown Below)

| | | |
|-----------|-----------------|------|
| A34-3200X | Ore car, 70 ton | 3.89 |
|-----------|-----------------|------|

| | | |
|-----------|----------------------|------|
| A34-3230X | Tank car, "beer can" | 3.89 |
|-----------|----------------------|------|

| | | |
|-----------|----------------|------|
| A34-3260X | Hopper, 90 ton | 3.89 |
|-----------|----------------|------|

| | | |
|-----------|-----------------------|------|
| A34-3300X | Box car, 40' plg. dr. | 3.89 |
|-----------|-----------------------|------|

| | | |
|-----------|-----------------------------|------|
| A34-3400X | Box car, 40' (3400 to 3418) | 3.89 |
|-----------|-----------------------------|------|

| | | |
|-----------|---------------------|------|
| A34-3500X | Gondola, 42' w/load | 3.89 |
|-----------|---------------------|------|

ATLAS "N" (A09), CONTD.

| | | |
|-----------|------------------------------|------|
| A34-3520X | Stock car, 40' | 3.89 |
| A34-3540X | Stock car, 50' | 3.89 |
| A34-3600X | Box car, 50' dbl. dr. | 3.89 |
| A34-3650X | Reefer, 50' mechanical | 3.89 |
| A34-3700X | Hopper, 4 bay ACF cent. flo. | 4.79 |
| A34-3720X | Hopper, 3 bay 90/100 ton | 3.89 |
| A34-3740X | Flat car, 48' w/trailer | 4.79 |
| A34-3770X | Piggyback flat w/40' trl. | 4.79 |
| A34-3800X | Flat car w/stakes | 3.89 |

BACHMANN "N"

MFG. I.D.—B01

Steam Locos:

| | | |
|-------|---------------------|-------|
| N510W | American: UP or JUP | 22.39 |
|-------|---------------------|-------|

| | | |
|-------|--------------------|-------|
| N515W | Prairie: NYC or UP | 22.79 |
|-------|--------------------|-------|

| | | |
|-------|---------------------|-------|
| N526W | Dockside: SF or B&O | 14.59 |
|-------|---------------------|-------|

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|-------|----------------|--|
| N530W | Consolidation: | |
|-------|----------------|--|

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|--|-----------------|-------|
| | SF, Read, or GN | 29.59 |
|--|-----------------|-------|

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|-------|-------------------|-------|
| N545W | Mikado: UP or B&O | 32.49 |
|-------|-------------------|-------|

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|-------|----------------------|-------|
| N547W | Shifter: SF or Penn. | 17.99 |
|-------|----------------------|-------|

| | | |
|-------|--------------------------|-------|
| N580W | Northern: SF, Read or BN | 36.99 |
|-------|--------------------------|-------|

| | | |
|-------|--------------------------|-------|
| 53551 | UP Overland (gld & silv) | 37.99 |
|-------|--------------------------|-------|

| | | |
|-------|-------------------------|-------|
| 53552 | UP Overland (gld & grn) | 37.99 |
|-------|-------------------------|-------|

Diesel Locos:

| | | |
|-------|------------------------------|-------|
| N600W | Plymouth Switch: SF or Burl. | 11.39 |
|-------|------------------------------|-------|

| | | |
|-------|------------------------|-------|
| N612W | GP50: UP, SF, BN or EL | 21.49 |
|-------|------------------------|-------|

| | | |
|-------|--------------------------------|-------|
| N615W | F9: SF, Amtrak, Ches. or Penn. | 15.89 |
|-------|--------------------------------|-------|

| | | |
|-------|--------------------|-------|
| N635W | GP40: SF, BN or SP | 19.69 |
|-------|--------------------|-------|

| | | |
|-------|---------------------------|-------|
| N640W | U36B: UP, SF, RI or Ches. | 19.69 |
|-------|---------------------------|-------|

| | | |
|-------|---------------------------|-------|
| N670W | SD40-2: UP, SF, BN or SCL | 22.79 |
|-------|---------------------------|-------|

Sets (Complete):

| | | |
|-------|-------------------|-------|
| 24262 | Yard Boss-freight | 37.99 |
|-------|-------------------|-------|

| | | |
|-------|-----------------------|-------|
| 24404 | The Old Timer-freight | 42.99 |
|-------|-----------------------|-------|

| | | |
|-------|-------------------------|-------|
| 24405 | American-old time pass. | 42.99 |
|-------|-------------------------|-------|

| | | |
|-------|---------------------------|-------|
| 24410 | The Consolidation-freight | 46.99 |
|-------|---------------------------|-------|

| | | |
|-------|-----------------|-------|
| 24360 | Amfleet Express | 47.99 |
|-------|-----------------|-------|

BOWSER "N"

MFG. I.D.—B03

| | | |
|------|--------------|-------|
| 7908 | 8" turntable | 58.99 |
|------|--------------|-------|

| | | |
|------|----------------------|------|
| 7909 | Detail kit for 8" TT | 7.99 |
|------|----------------------|------|

| | | |
|------|---------------|-------|
| 7910 | 10" turntable | 59.99 |
|------|---------------|-------|

| | | |
|------|-----------------------|------|
| 7911 | Detail kit for 10" TT | 8.99 |
|------|-----------------------|------|

| | | |
|------|------------------------|-------|
| 7900 | Motorizing kit for all | 48.99 |
|------|------------------------|-------|

| | | |
|------|----------------------|-------|
| 7901 | Indexing kit for all | 48.99 |
|------|----------------------|-------|

MODEL POWER "N"

MFG. I.D.—M13

Building Kits and Accessories:

| | | |
|------|---------------------|------|
| 1501 | Comb. railroad sta. | 7.39 |
|------|---------------------|------|

| | | |
|------|-------------------|------|
| 1502 | 3 suburban houses | 7.39 |
|------|-------------------|------|

| | | |
|------|---------------|------|
| 1503 | Exxon station | 6.69 |
|------|---------------|------|

| | | |
|------|-----------------|------|
| 1506 | Blue coal depot | 6.69 |
|------|-----------------|------|

| | | |
|------|-------------------|------|
| 1509 | Budweiser brewery | 7.39 |
|------|-------------------|------|

| | | |
|------|--------------------|------|
| 1510 | Star journal bldg. | 6.69 |
|------|--------------------|------|

| | | |
|------|-------------------------|------|
| 1511 | Firehouse w/fire engine | 6.69 |
|------|-------------------------|------|

| | | |
|------|----------------|------|
| 1512 | Railroad hotel | 6.69 |
|------|----------------|------|

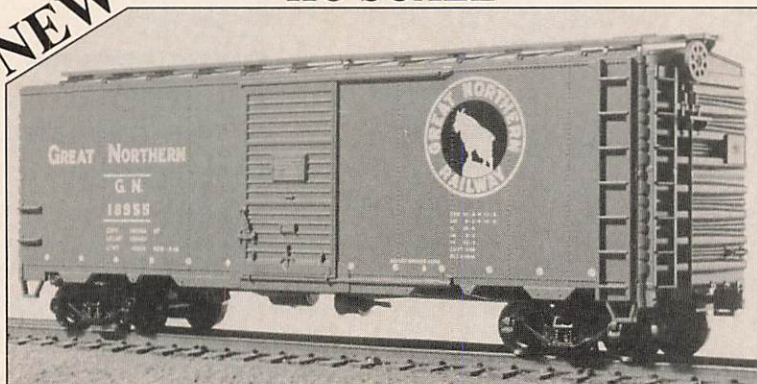
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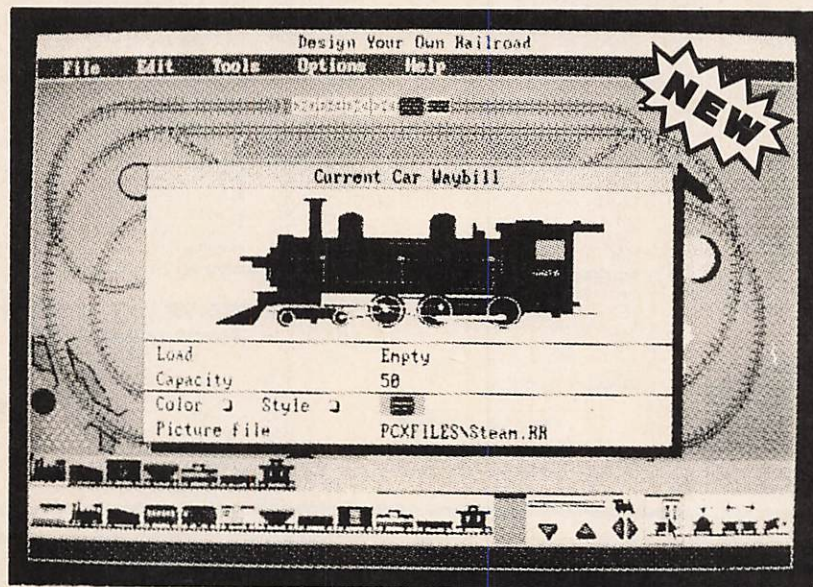
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FOR A fascinating step back in time without leaving the present, take a look at **Northern Mexico Rails**. For this VHS-format video, Pentrex went south of the border and returned with some nice scenes of railroading in Mexico.

Today's railroads of Mexico are reminiscent of U. S. railroads 50 years ago. Small-town railroad stations (an interesting mix of brick, stone, and stucco structures) are active places. Local passenger and mixed trains are the primary means of travel for many people. The telegraph is still an often-used method of communication. Less-than-carload shipments are prevalent, including cargo such as wicker baskets full of strawberries. The video captures this back-in-time feel.

This 105-minute tape also highlights Mexico's diverse and interesting mix of motive power. Hotshot freights are shown being pulled by "new" General Electric Super Seven series rebuilt units. Other power includes rebuilt SD40s and SD45s, along with several SD40-2s on lease from the Union Pacific. Several ex-Missouri Pacific units can be seen, both in UP yellow and MoPac blue. Former Missouri-Kansas-Texas GP40s, still wearing "John Deere" green and yellow, are also shown.

Alcos are still operated in many areas, and we're treated to the sight (and sound) of many RS-11s and an RSD-12 in freight, mixed, and switcher service. Among the other unusual locomotives are EMD G12 export units, including one without a front coupler pulling a mixed train.

Plenty of other odds and ends are shown, including some former Pennsylvania RR passenger cars with trucks removed, serving as living quarters for train crews.

The tape highlights mountain railroad action, including scenes of an engineer trying to ease his stalled ore train over the crest of a grade but to no avail. A helper engine then arrives, couples on, and cuts off on the fly after helping the train over the crest. We also see some nice mountain scenery during a cab ride on an SD40 heading a passenger train up a 3 percent grade.

Although the tape drags a bit in some places, there are enough interesting scenes to make it worthwhile to watch. — Jeff Wilson

Northern Mexico Rails, \$39.95

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|-------|------------------------------|--------|
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| 16527 | Western Pacific Work Caboose | 28.00 |
| 18623 | Texas & Pacific 4-4-2 | 119.00 |
| 16531 | Texas & Pacific Caboose | 28.00 |
| 18816 | C&NW GP-38-2 | 153.00 |
| 16533 | C&NW B/W Caboose | 29.00 |
| 18016 | Northern Pacific 4-8-4 | 699.00 |
| 17615 | Northern Pacific Caboose | 79.00 |
| 18018 | Southern 2-8-2 Mikado | 999.00 |
| 17613 | Southern Caboose | 79.00 |
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| 18506 | Canadian National Budd Cars | 325.00 |

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| | | |
|-------|------------------------|-------|
| 19528 | Joshua L. Cowen Reefer | 23.00 |
| 19529 | A.C. Gilbert Reefer | 23.00 |

S.P. "MADISON" CARS 565.00

STANDARD "O" ROLLING STOCK

| | | |
|-------|--------------------------------------|-------|
| 17005 | Cargill Center Flow Hopper | 37.00 |
| 17112 | Erie Lackawanna Center Flow Hopper | 38.00 |
| 17207 | Chicago and Illinois Midland Box Car | 44.00 |
| 17208 | Union Pacific Box Car | 44.00 |

FAMOUS NAME BOX CARS

| | | |
|-------|-------------------------------|-------|
| 19237 | Chicago and Illinois Midland | 20.00 |
| 19238 | Kansas City Southern Boxcar | 20.00 |
| 19239 | Toronto, Hamilton and Buffalo | 20.00 |
| 19240 | Great Northern | 20.00 |

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| | | |
|-------|--------------------------------------|--------|
| 49602 | Northern Pacific PA-1 Passenger Set | 650.00 |
| 48010 | Milwaukee Road "Little Joe" | 250.00 |
| 49006 | Milwaukee Road Animated Caboose | 43.00 |
| 48117 | N.P. PB-1 Non-Powered w/ RailSounds™ | 175.00 |
| 48925 | Northern Pacific Passenger Coach | 59.00 |

ROLLING STOCK

| | | |
|-------|---------------------------------------|-------|
| 16115 | MKT Three-Dome Tank Car | 22.50 |
| 16217 | Burlington Northern Auto Carrier | 34.00 |
| 16228 | Union Pacific Auto Carrier | 34.00 |
| 16341 | New York Central Transformer Car | 23.50 |
| 16342 | CSX Gondola with Coil Covers | 22.50 |
| 16343 | Burlington Gondola with Coil Covers | 22.50 |
| 16345 | Southern Pacific T.T.U.X. | 65.50 |
| 16348 | Liquefied Petroleum Car | 26.00 |
| 16349 | Allis Chalmers Condenser Car | 25.00 |
| 16352 | Cruise Missile Car | 22.50 |
| 16703 | New York Central Tool Car | 34.00 |
| 19319 | Union Pacific Four-Bay Covered Hopper | 22.50 |
| 19915 | "I Love Texas" Boxcar | 23.50 |

OPERATING CARS

| | | |
|-------|--------------------------------------|-------|
| 16646 | Railbox Box Car with E.T.D. | 29.50 |
| 19412 | Frisco Six-Wheel Crane Car | 59.00 |
| 19413 | Frisco Flatcar with Stakes | 27.00 |
| 19657 | Wabash Bunk Car with Smoke | 58.00 |
| 19714 | New York Central Searchlight Caboose | 99.00 |
| 19815 | Delaware & Hudson Brakeman Car | 71.00 |

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| | | |
|-------|--------------------------------------|---------|
| A-B-A | Five Passenger Cars | 1275.00 |
| FF | #6 "NICKEL PLATE ROAD" | 669.00 |
| 18505 | Nickel Plate Road Double Headed GP-7 | 428.00 |

PASSENGER CARS

| | | |
|-------|------------------------|-------|
| 16024 | Northern Pacific Diner | 28.50 |
| 16048 | Amtrak Diner | 28.50 |
| 16049 | Illinois Central Diner | 28.50 |

DIE-CAST VEHICLES

| | | |
|-------|----------------------------------|-------|
| 12806 | Lionel Lumber Truck | 11.75 |
| 12808 | Mobil Tractor and Tanker | 11.75 |
| 12811 | Alka Seltzer Tractor and Trailer | 11.75 |

ACCESSORIES

| | | |
|-------|----------------------------|-------|
| 12798 | Fork Lift Loader Station | 59.00 |
| 12805 | Three Inermodal Containers | 20.00 |

TRAIN SETS

| | | |
|-------|---------------------------|--------|
| 1602 | Nickel Plate Special | 192.00 |
| 11703 | Iron Horse Freight | 158.00 |
| 11720 | Santa Fe Special™ | 72.00 |
| 11721 | Mickey's World Tour Train | 106.00 |
| 11722 | Girl's Train | 499.00 |

ENGINES

| | | |
|-------|--------------------------------|---------|
| 18000 | Penn. 0-6-0 B-6 w/Sound | 675.00 |
| 18010 | S-2 6-8-6 Pennsylvania Turbine | 1495.00 |
| 18204 | Chessie SD-40 (Non-Powered) | 179.00 |
| 18208 | B.N. SD-40 Non-Powered | 199.95 |

18403 Santa Hand Car (green) CLOSE OUT 34.95

| | | |
|-------|---------------------------------------|--------|
| 18413 | Charlie Brown and Lucy Handcar | 53.00 |
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| 18610 | Rock Island 0-4-0 Loco. & Tender | 189.00 |
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BOX CARS

| | | |
|-------|-----------------------------------|-------|
| 19208 | Southern Box Car | 20.00 |
| 19215 | Union Pacific Double Door Box Car | 17.75 |
| 19216 | Santa Fe Box Car | 17.75 |
| 19217 | Burlington Box Car | 17.75 |
| 19228 | Cotton Belt Box Car | 19.00 |
| 19231 | T.A. & G. Double Door Box Car | 19.00 |
| 19232 | Rock Island Double Door Box Car | 19.00 |

STANDARD "O" ROLLING STOCK

| | | |
|-------|--|-------|
| 17004 | MKT Centerflow Two-Bay Hopper | 34.00 |
| 17109 | N. & W. Centerflow 3-Bay Hopper | 35.00 |
| 17110 | Union Pacific 3-Bay Hopper w/Coal Load | 37.00 |
| 17111 | Reading 3-Bay Hopper w/Coal Load | 37.00 |
| 17203 | Cotton Belt Double-Door Box Car | 41.00 |
| 17204 | Missouri Pacific Double-Door Box Car | 41.00 |
| 17610 | Wabash Square-Window Caboose | 75.00 |
| 17900 | Santa Fe Uni-Body Tank Car | 47.50 |
| 17901 | Chevron Uni-Body Tank Car | 47.50 |
| 17902 | New Jersey Zinc Uni-Body Tank Car | 51.00 |
| 17903 | Conoco Uni-Body Tank Car | 51.00 |

ROLLING STOCK

| | | |
|-------|--|---------------|
| 16031 | Pennsylvania Dining Car | 24.00 |
| 16033 | Amtrak Baggage Car | 24.00 |
| 16107 | Sunoco Two Dome Tank Car | 18.50 |
| 16113 | Dia. Sham. 2 Dome Tank Car | 19.50 |
| 16214 | D&RG Two Tier Auto Carrier | 31.00 |
| 16215 | Conrail Two Tier Auto Carrier | 31.00 |
| 16317 | Penn. Barrel Ramp Car | 15.00 |
| 16318 | L.L. Depressed Flat Car w/Cable Reels | 20.00 |
| 16320 | G.N. Barrel Ramp Car | Special 14.95 |
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| 16324 | Penn. Depressed Flat Car w/Cable Reels | 21.00 |
| 16326 | S.F. Depressed Flatcar w/Cable Reels | 22.00 |
| 16332 | L.L. Depressed Flatcar w/Transformer | 22.00 |
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| 16334 | C. & N.W. T.T.U.X. Flatcar Set | 62.00 |
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| 19010 | B. & O Dining Car | 35.00 |
| 19105 | Amtrak Vista Dome | 110.00 |
| 19108 | N & W Full Vista Dome | 119.00 |
| 19307 | B & LE Ore Car w/Load | 16.75 |
| 19311 | Southern Pacific Covered Hopper | 20.00 |
| 19313 | B & O Ore Car w/Load | 17.50 |
| 19316 | Wabash Covered Hopper | 21.00 |
| 19409 | Southern Flatcar | 23.00 |

19515 Milwaukee Road Stock Car Special 19.95

| | | |
|-------|-------------------------|-------------|
| 19652 | Jersey Central Bunk Car | Close 21.40 |
| 19653 | Jersey Central Tool Car | Out 21.40 |

| | | |
|-------|--------------------------------|---------------|
| 19654 | Amtrak Bunk Car | 26.00 |
| 19655 | Amtrak Tool Car | Special 19.95 |
| 19906 | "I Love Pennsylvania" Box Car | 19.75 |
| 19909 | "I Love New Jersey" Box Car | 21.00 |
| 19912 | "I Love Ohio" Box Car | 22.00 |
| 19913 | O Gauge 1991 Christmas Box Car | 25.00 |

CABOOSES

| | | |
|-------|------------------------------------|---------------|
| 16510 | New Haven Bay Window Caboose | 26.00 |
| 16513 | Union Pacific Sq. Window Caboose | 22.00 |
| 16516 | Lehigh Valley Sq. Window Caboose | 23.00 |
| 16517 | Atlantic C.L. Bay Window Caboose | 27.00 |
| 16519 | Rock Island Tranfer Caboose | 22.50 |
| 16526 | K.C.S. Sq. Window Caboose | 27.00 |
| 17606 | N.Y.C. Stand "O" S/W Cab. w/Smoke | 59.90 |
| 17607 | Reading Stand "O" S/W Cab. w/Smoke | 59.90 |
| 19706 | UP Ext. Vision Caboose w/Smoke | 59.00 |
| 19709 | Penn. Work Caboose w/Smoke | 78.00 |
| 19807 | Penn. Ext. Vision w/Smoke | Special 54.00 |

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| | | |
|-------|-------------------------------------|--------|
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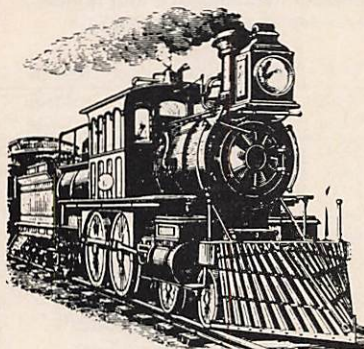
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Florida State Fairgrounds, Entertainment Hall. On I-4 at U.S. Highway 301, four miles east of Tampa. Parking: fee charged.

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IF BIG-TIME modern coal-hauling is your brand of railroading, and if you can admit to yourself that coal really can be found outside the Appalachians, then you'll enjoy **Chicago & North Western Powder River Coal: Vol. 1**. This new 90-minute tape from Casey Jones Video Productions (available in VHS, Beta, and PAL formats) shows many C&NW coal trains (and occasional Burlington Northern trains) passing between South Morrill, Nebr., and Bill, Wyo.

Under a variety of agreements, the C&NW and the BN share the coalfield, and the C&NW uses power and track-
age of the Union Pacific. That's why most of the trains shown have a mix of C&NW and UP locomotives. The smallest consist had three locomotives; the largest had six, led by the C&NW's Wyoming Bicentennial Dash 8-40C 8542. It's mighty impressive! An occasional Norfolk Southern locomotive also shows up, while the BN trains run with BN, leased EMD and LMX units, and some Kansas City Southern diesels. All in all, it's quite a rainbow of locomotives.

Speaking of variety, the video's producers struggle valiantly to make unit coal trains visually exciting. They shoot from atop a cut, at track level, below bridges, inside cabs - even between the rails! Even so, I could stand to see less of some of the trains. After all, a unit train is, by definition, an exercise in sameness.

The graphics were straightforward, if unsophisticated (they could have used a map, though the timetable enclosed with the video helped). The same can be said of the narration. On the other hand, the limited narration is functional and didn't prevent me from hearing the roaring of the locomotives and the sound of their horns.

The sound quality of this videotape is good - complete with the howling of a cold March wind whipping across the prairie. The camerawork is steady and, as noted above, imaginative.

Maybe I was just getting tired of unit coal trains, but the high point of the tape for me came at the midway point as a rail grinder made its painfully slow way onto the screen. With sparks flying, machinery whining, metal wailing, and smoke curling, this slow-moving piece of machinery looked like some kind of demonic device crawling across the prairie. Never having seen one of these, I found it fascinating and rewound the tape to take another look.

Glaring by their omission were shots of the coal-loading process. The producer plans to cover this in the next volume (not yet available). - Dick Christianson

Chicago & North Western Powder River Coal, Vol. 1, \$39.95

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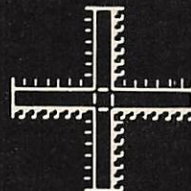


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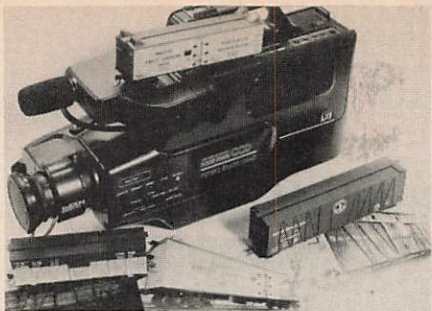
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Donald W. Nesbit

Here's SP no. 3600 as built in 1954. The dome made for great viewing in the mountains.

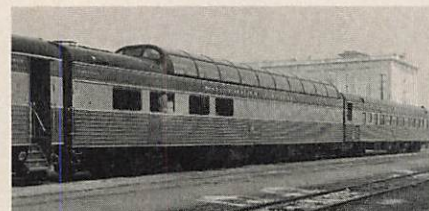


Conducted by Jim Kelly

We welcome your modeling suggestions and questions. We answer some questions in the magazine and many more by return mail, but can't answer all the Workshop mail we receive. Please write "MR Workshop" at the top of your letter and address it to MODEL RAILROADER Magazine, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187. There is no payment for questions, but suggestions are paid for upon publication.

I've been hunting for an HO model of one of the Southern Pacific's dome-lounge cars, but to my knowledge no such model exists. I started to build one using a Riva-rossi streamlined diner and the dome portion of a Bachmann 85-foot dome car. The main problem I'm having is window locations on the sides. Do you have any good side-view photos? — Rob Piecuch, Horseheads, N. Y.

Here are several shots showing opposite sides of car no. 3600, the first of the Southern Pacific's dome-lounges.

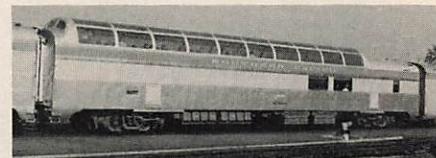


Southern Pacific News Bureau

Here's no. 3600 as seen from the opposite side. The glass dome seated 64 passengers.

All told there were seven of these cars (3600-3606) built by the SP in its shops at Sacramento, Calif., during 1954 and 1955. Small differences exist between them, as they were built on the frames of older cars of various types. (The first car, for example, had a 10-panel dome; the later cars had 12 panels in a dome the same length.)

Also the paint schemes of the dome-lounges differed, depending on the trains for which they were built. These cars were used on the *San Joaquin Daylight* (nos. 3600 and 3604), *Shasta Daylight* (3605 and 3606), and *City of San Francisco* (3601, 3602, and 3603).



George A. Trager

Here's no. 3600 sometime in the 1960s. It looks naked without those corrugated side panels.

Basically these were 80-foot cars with 60-foot domes. The lower level contained a bar and crew quarters.

Robert J. Church's article on scratch-building one of these cars appeared in the October 1972 MODEL RAILROADER. This issue is no longer available from us, so check your library or a friend. We do offer a reprint service on articles out of print. The cost is 50 cents per page, with a \$5 minimum. Mr. Church's article runs five pages and includes a useful side drawing and other information. He made his dome by tacking sheet plastic over a wooden form and baking it in an oven at 200 degrees for 15 minutes.

Your approach of using the Bachmann dome on the Riva-rossi diner strikes me as a good one, depending on how accurate you want to be. The dome may come out a bit high, and you're going to have fewer glass panels than the prototype did.

If anyone out there has made a nice model of this car, using kitbashing techniques, let's hear from you. It sounds like a good project for all our passenger car fans. — Jim Kelly

In your June issue the article on the Eagle Ridge Ry. shows the backdrop making some very tight curves around two support posts as well as in some of the room corners. What material can be used for such tight curves? Once on a layout tour I saw a layout under construction using something that looked like long strips of posterboard. Would this work? — H. C. Dolstad, Salinas, Calif.

Frankly, I don't know of a backdrop material that could be bent to such tight curves as those shown in the Eagle Ridge track plan. I have made backdrops with cardboard (E-Z Curve) and also with Masonite. Neither of these would be capable of the 6" radii shown.

Track planners propose; we builders dispose. In other words, we need to change the plan or find a way to build it. We could use our conventional materials on the straighter sections and find an alternative for the curves. Some possibilities that come to mind are laminating thinner cardboard, cutting plastic pipe in two, and doing the same with sheet-metal heating duct. You can make perfect seams using joint compound or body putty. — J. K.



Jerome Warner collection

A worker uses a very basic overhead traveling crane to unload bags of cement from a flatcar and onto a flatbed truck. This photo was probably taken in the late 1920s or early 1930s.

Hauling cement: Not long ago I was sitting in the office of Mr. Jerome Warner at the Monolith cement plant near Tehachapi, Calif. Mr. Warner was born in 1926 at the company town that used to be across the road from the plant. He has worked there for 47 years. I asked him the same question Scott Schifer asked in the February Workshop: "How was cement shipped prior to covered hoppers?"

Mr. Warner gave three answers. First, cement was blown loose into specially lined boxcars. Second, it was loaded into boxcars in 100-pound bags, which were cloth in those days. Third, it was shipped in large cloth bags, 15-barrel capacity, that could be loaded on gondolas or flatcars. These bags had tied openings at the top and bottom. The bag was loaded through the top and opened by lifting it with a crane and opening the bottom. — Harry Dudrow, Long Beach, Calif.

Can you tell me who makes a power supply to increase the output on power packs? I have two MRC packs, but they don't put out enough power. It takes about half-throttle to move my trains. One pack is a Dualpower 2800; the other is a Dualpack 770. — Bill Harvey, Joshua Tree, Calif.

Bill, I'm afraid we have too many unknowns here. What's the scale? How big is your layout? What kinds of engines are you running? How long are your trains?

According to a chart in the Walther's HO catalog, the Dualpack 770 puts out
More Workshop on page 162

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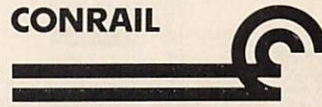
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2611 Crossing

2612 Crossing

2613 Crossing

2614 Crossing

2615 Crossing

2616 Crossing

2617 Crossing

2618 Crossing

6 Dock Loading Door

7 Archway

8 2 Story Window

9 2 Story Upper Window

10 2 Story Lower Window

11 2 Story Blank

12 1 Story Window

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1002 The Queen Anne House

1003 The Painted Lady House

Buildings

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1009 The Stevenson House

1010 The Pullman House

1011 The Baldwin House

Buildings

1012 South Street Smoke Shop

1013 Rita's Antique Shop

1014 Grant Cary's Apothecary

Buildings

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1020 Fast Photo

1021 Charisma (women's clothing)

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2010 Rita's Antique Shop

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833 G-Track Mount

834 G-Body Mount

835 G-Track Mount

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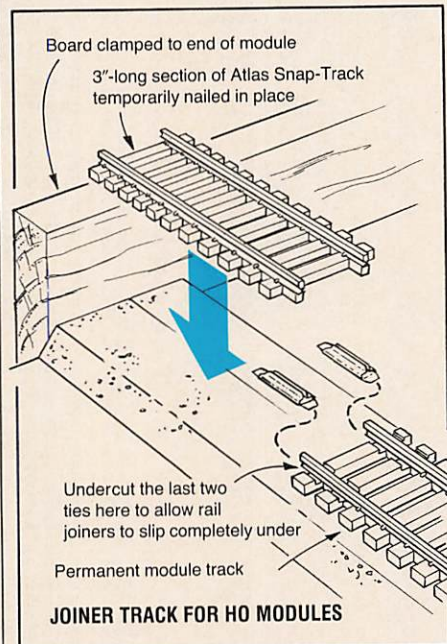
send SASE for complete brass list

More Workshop from page 159

1.6 amps and the Dualpower 2800 puts out 1.9. Most modern HO locomotives draw .25 amps or less, so either of these packs should be able to run half a dozen engines easily.

I don't know of any sort of booster you can add to a power pack.

Having to move the throttle about half-open to move the trains doesn't sound out of the ordinary to me, if you have a heavy train. Generally it takes more power to start a train moving, less once it's on its way. — J. K.



Building modules right: In the November 1991 MR Workshop, Jerry Elya asks about building HO scale modules. Here in the New York metropolitan area we have a group of approximately 35 HO modular railroaders, each person having from one to seven modules. This is the method we've developed for constructing modules that go together easily and correctly:

We use 6" Atlas Snap-Track sections for joining the modules. When building the modules we clamp a board on the end to serve as a stop for the track. Then we position 3" Snap-Track sections against the board and fasten them with two nails.

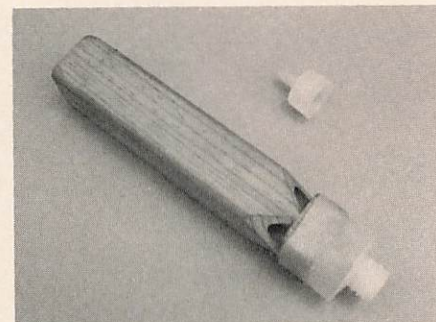
We prepare the track to be installed by undercutting the two end ties so that rail joiners will slide completely under them. (This allows joiner tracks to be installed after the modules are clamped together.) After joining this track to the temporary 3" section we lay the rest of the track.

When we get to the other end of the module, we simply clamp on another stop and then lay on 3" sections upside down to mark the place where the track should be cut off. — Dave Metal, Commack, N. Y.

I recently purchased an N scale Fairbanks-Morse C-Liner B-unit shell from T&J Hobbies. It's designed to fit on the Atlas C-Liner chassis, which has a two-axle front truck and a three-axle rear truck. Did F-M ever make a C-Liner B unit with this unusual combination of trucks? I don't know what to do with this shell as I can't find a picture of such a unit. — Bill Corston, Chicago, Ill.

Only six C-Liner B units with the odd B-A1A truck arrangement were ever made. All were built for the Canadian National by the Canadian Locomotive Works in Kingston, Ontario, under Fairbanks-Morse license. (Because of Canadian laws, U. S. locomotive manufacturers must have their locomotives manufactured in Canada rather than sold direct. The same goes for automobiles and some other products.)

Sorry, we don't have a photo of the CN B unit in question. One place you can find one is the book, *The Diesel Builders: Fairbanks-Morse and Lima-Hamilton*, by John F. Kirkland (Interurban Press, 1985). — J. K.



Whistle mouthpiece: Many of us own one of these big four-chime wooden whistles. You need a Joe E. Brown mouth to encircle the square end before blowing into it. What this thing needs is a mouthpiece.

After looking over old plastic bottles, I found one from a home permanent conditioner that seemed right. I cut it off several inches from the top, and it fit tightly over the whistle. No more splinters in the lips, and I can blow in comfort. — R. B. Montague, San Diego, Calif.

[Well, Mr. Montague, you've solved half my problem. Now I need to start jogging an hour a day to build up the lung power needed to blow these babies for any length of time! — J. K.]

Can you provide ordering information on the PFM-13 bulbs discussed by Bill DeFoe in his July 1991 MR article on diode lighting? I can't find these listed in the latest Walther's catalog. — Gordon E. Armbruster, Appleton, Wis.

Many hobby shops stock these bulbs or can order them for you. Or you can order them direct from PFM, P. O. Box 57, Seattle, WA 98020. A package of 10 costs \$23.12. There's a \$3 handling charge on orders for less than \$35. — J. K.

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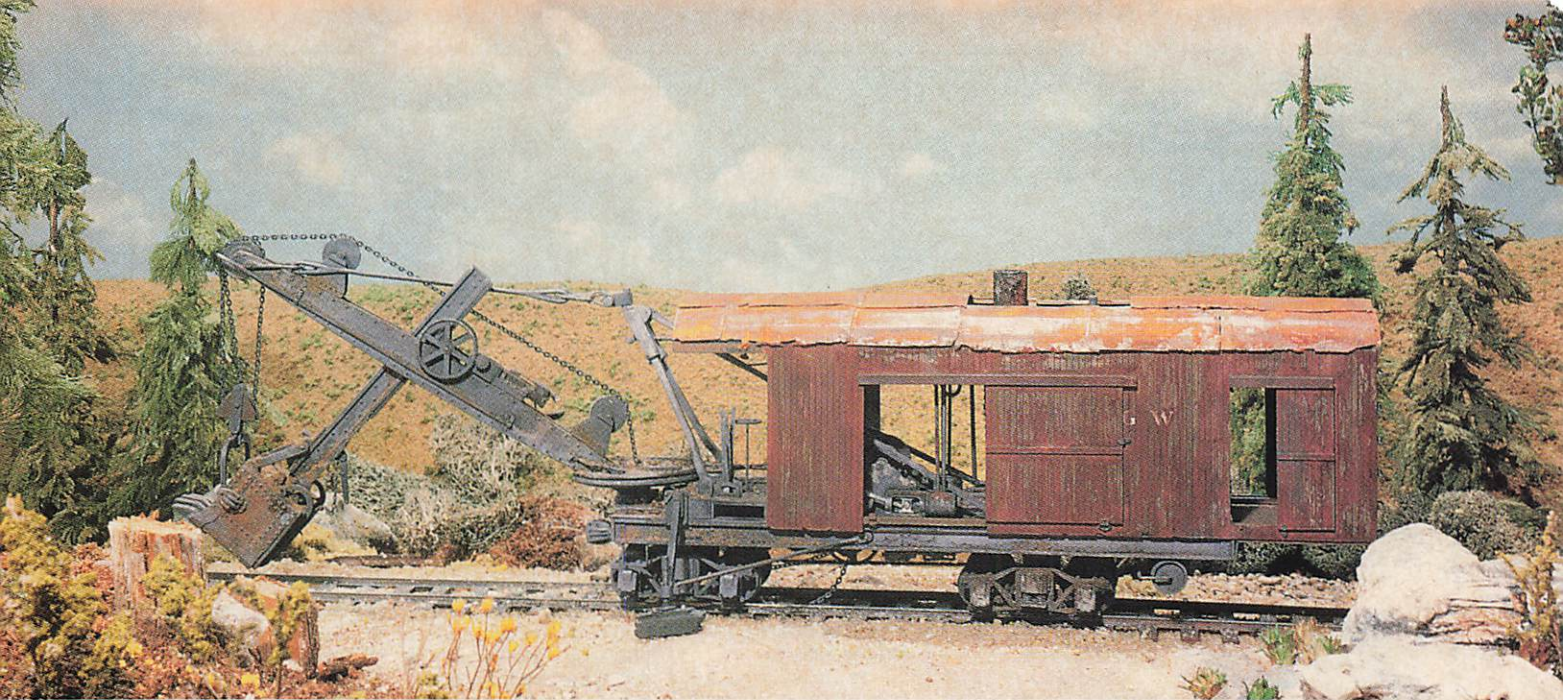
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A. L. Schmidt

Weathering wood and metal



Paint shop

Conducted by Jeff Wilson

Techniques for simulating peeling paint and rust can be used on a variety of models

BY LEE VANDE VISSE

ALTHOUGH THE star of this story is an On3 steam shovel, the real thrust of the article centers on Lee Vande Visse's techniques of simulating weathered wood and metal. The methods Lee describes can be applied to structures, rolling stock, and locomotives in any scale.

NARROW GAUGE steam shovel OQ was acquired in 1917 by the Denver & Rio Grande Western RR, where it operated until being scrapped in 1938. This On3 kit, which is somewhat difficult to find today, was made by Durango Press.

I chose this model for the project because the prototype would have seen extremes in weathering due to its steam engine, boiler, and firebox and because of its primary function of moving earth. Although this model is in a larger scale than many modelers are used to, the techniques are easily transferred to other scales.

PEELING PAINT ON THE BODY

The body on the prototype is wood, simulated on the model by scribed styrene plastic. Straight from the box this material is clean, so the first step is to add some grain to it. This is best done before any parts are assembled, when

the siding can be placed flat on the work surface.

In O scale, grain can be created by passing the blade of a Zona (razor) saw down the siding several times. In HO and N this is a bit coarse. In these scales, the edge of an X-acto blade can be used to create grain in the same manner. These methods leave small filaments of plastic that adhere to the model. I cleaned these off using a wire brush of the type used to clear sawdust from wood files.

In many projects, some painting is best done while the model is still in subassemblies. However, on this model the body is a separate piece that can be easily removed. I painted the body after it was assembled, prior to applying the roofing. This painting was done in several steps.

Wood is usually some shade of brown, so for the initial coats I sprayed the body with Floquil no. 110081 Earth. I have never had a problem with Floquil paints attacking plastic as long as each coat is not sprayed with a heavy hand. After three or four coats, the plastic is covered completely without any detail being lost. I then let the body dry overnight.

At this point the body still doesn't look like wood. Don't worry; the next step will take care of that.

Using Floquil no. 110070 Roof Brown,

I drybrushed the entire body. Drybrushing is the technique of dusting the surface with paint using an almost-dry brush. This needs a bit of practice at first, but it's easy to learn.

Place a newspaper in front of you while you work, and after you dip the brush in paint, stroke it several times across the paper until it's almost dry. Now you can brush the model. The idea is to streak the boards, bringing out the grain and planking lines. Now the body is starting to look like wood. If you make a mistake and apply the paint too heavily, don't worry; the next step eliminates mistakes nicely. At this point I let the model dry thoroughly, putting it aside for about three days.

The next step is to apply rubber cement to the body. This technique has been around for several years and produces top-notch peeling paint. The best results are obtained with a fresh bottle — old rubber cement could ruin the whole project. This step can be a bit unnerving if you've never tried it before, so it's wise to practice on a scrap piece.

Paint patches of the body with the rubber cement, applying it a bit on the thick side. Keep in mind that the areas you paint will eventually show through as wood. Don't put any rubber cement on areas you considered "mistakes" when drybrushing.

Now, without hesitation, pick up your latest issue of *MODEL RAILROADER* and read it for one hour. At the end of the hour prepare your airbrush with the finish paint. For the steam shovel I used Floquil no. 110184 Tuscan Red. The body was sprayed with several coats as if nothing different had been done.

Next come the decals, and again we break with common wisdom. I applied these just a few hours after the body was coated with rubber cement. Then, as soon as the last decal fluid and water had evaporated from the surface, I sprayed the entire body with a very light weathering coat of light gray. This was done with the idea that the car received some weathering before the paint started to peel.

Now comes the fun part. If you haven't waited too long, you can peel off the rubber cement with a piece of masking tape held between your fingers. If the rubber cement is sluggish in coming off, use a clean pencil eraser as shown in fig. 1. Areas not covered with rubber cement won't budge and will actually become a bit more worn when rubbed with the eraser. Rubber cement shrinks as it dries, so any excess under the final paint will hardly be noticeable.

SIMULATING METAL

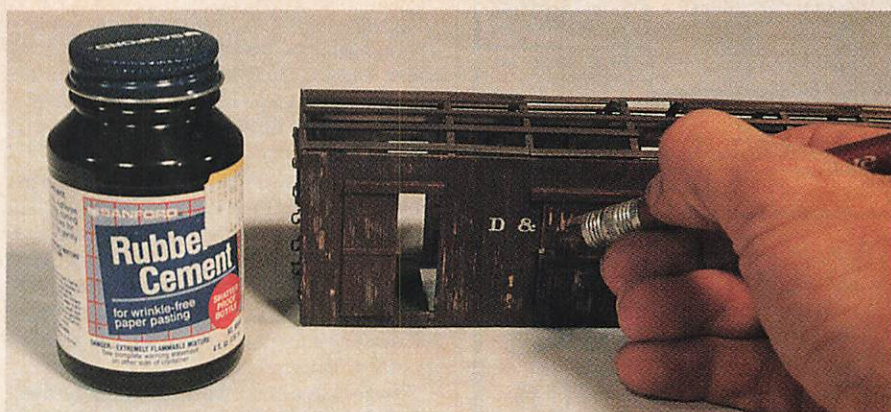
Everything else on the prototype is metal. The kit used either white plastic or a very bright, shiny white metal in these areas, but in both cases the painting technique is the same.

After cleaning the model with a mild detergent to remove any film, I sprayed everything with several base coats of Floquil no. 110131 SP *Lark* Light Gray, allowing some drying time between each coat. As a final step, I brushed on a couple coats of Humbrol no. 8188 Polished Steel.

Allow several days of drying time before proceeding to the next step, buffing. Buffing is best accomplished with a clean cloth buffing wheel that's mounted on a motor tool turning at slow speed. A motor tool turning at full power will rip the paint right off the model. Don't attempt to buff every square inch of the model. This isn't possible without damaging the surface, and in real life the high points are the ones that catch the light; on the model the buffing brings this out. This shiny steel is very realistic. As with many things in the hobby there's no substitute for practice.

Some buffing can also be accomplished by hand with a clean rag and cotton swabs. Eventually you'll recognize the purpose behind the different coats of paint, as the buffed Humbrol forms a semitransparent, steel-like sheen that blends with the Floquil gray below it.

These different steps took several evenings to accomplish. The model was returned to the paint booth many times



Lee Vande Visse

Fig. 1. Stubborn rubber cement will yield to an eraser. The result is a nice effect of peeling paint.

for additional touches of the Humbrol Polished Steel, but in the end the frame and the machinery had a convincing like-new steel appearance.

WEATHERING METAL

If you're looking for a shiny, new appearance, stop here. In real life, however, steel doesn't retain this appearance for long. That's why I chose to weather the model by adding dirt, soot, ash, and rust. Much of this weathering accumulates in the cracks and corners where the buffing wheel couldn't reach.

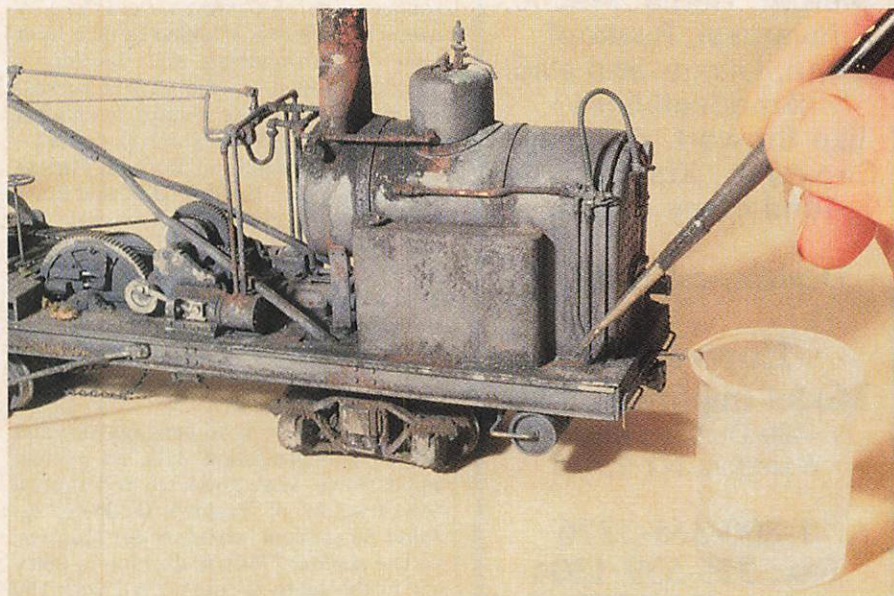
One thing that's often missing from models is texture. Too often we put our effort into the coloring of the weathering and forget that the prototype had a gritty, almost crunchy texture. We've already applied this rule to the grain of the boards on the body and to the machined surfaces of the steel. Rust that's merely streaks of paint just doesn't make it when the real stuff is lumpy and has a surface raised above the base metal. Ash should have an almost

snow-like appearance. Of course, any weathering we do should be durable and adhere to the model.

On the steam shovel, rust would have formed on the steel members exposed to the elements and excess boiler water. Black ash would have accumulated on flat surfaces around the firebox and stack where there's no regular traffic. The maintained machinery should have a shiny, oiled appearance.

Much of this can be accomplished with acrylic chalks. These chalks, which are available through art shops, can be very effective just dusted onto a model and worked into the surface with a dry paintbrush. This technique yields a very dry, dusty appearance. It can be taken one step further to provide the texture normally missing from our models.

On the steam shovel, ash would have accumulated around the inaccessible areas of the firebox to a depth of several inches. This fly ash was expelled by the stack and should look very light. It should also cover the top of the boiler.



Lee Vande Visse

Fig. 2. Fix the chalk with a drop of methyl ethyl ketone. Note the texture of the rust and ash.

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Using the black chalk and an X-acto knife, I flicked powder heavily over all these areas. In some places it was as much as six scale inches deep. It looks great, but the final rule is that it has to stay in place.

To fix the chalk to the surface of the model, I used Floquil Dio-Sol applied with a 00 or 000 paintbrush (methyl ethyl ketone [MEK] also works). The trick is to take a very small drop and transfer it to the surface of the chalk without the brush touching the chalk, as in fig. 2.

These solvents will immediately flow into the chalk without disturbing it. Once under the surface, they dissolve the carrier fluid in the Floquil gray paint and this mixes with the chalk, bonding it to the surface. This is also the reason I used several coats of base paint. Once you've acquired the right touch, this technique can be applied to all sorts of weathering, including the white alkali stains around the steam dome and water tank and small areas of rust.

Once the model has dried, try the chalks again, but this time in more isolated areas. For example, where two pipes join at an elbow there was a leak (trust me). Dab on some Floquil Grimy Black, then flick some rust-colored chalk over it. Gently blow the excess away, and the joint is rusted. This was the technique used on the smokestack. If the color isn't quite right, experiment with different colors of paint or add more chalk with a touch of MEK. This type of rust is the second best I have ever seen (the real stuff is in third place, believe it or not, but I'm getting ahead of myself).

Although I've never had difficulty with the chalk adhering to a model using this technique, I have often used touches of diluted paint to hold chalk in areas I corrected or added to at a later time. Experimenting and developing your own touch are the keys to success in this area, but the results, even after your first try, will be worth the effort.

To steal an idea from Malcolm Furlow, there's no better dirt than dirt, and that's what I used around the bucket and boom of the steam shovel. The dirt was taken from the garden behind my house. Before using it I placed it in the microwave oven to kill any beasts that might call the dirt home. I don't know if this is necessary, but it does serve to dry the dirt as well.

The next step is to arrange the dirt until you're satisfied with its overall appearance. Then go ahead and apply a few droplets of Testor's Dullcote, diluted 50 percent with lacquer thinner, to the surface. This technique is similar to the method that's used with the chalks and gives a very acceptable finished appearance.

At first the dirt will darken drastically, but then it lightens as the Dullcote dries. The result looks very realistic, and the effect can be further enhanced by adding a few dead branches and some miniature boulders.

RUSTING THE ROOF

I mentioned earlier that there's one more way to make rust that may be the best of all. This is the process I used on the roof. My attempts to determine the roof material used on the prototype of this model were unsuccessful, so I decided to work toward a galvanized steel look. These are flat plates approximately 3 x 5 feet. To model them I used .005" brass shim stock cut to size. Each piece was molded to fit and then glued in place with cyanoacrylate adhesive (CA) and accelerator.

To achieve the rust effect, I used a 50:50 solution of Radio Shack Printed Circuit Board Etch and copper patina. (This material, which is also known as Hobby Black, is generally available through stores that deal in art glass.) I brushed this solution on the surface and left it to react overnight. The next day I scrubbed the solution off with a brush and water. The final step was to brush several coats of straight patina on the roof.

These two compounds, used in combination, produce the most realistic rust I have seen, and the result can be seen in the photos. At any time you can go back and add etchant for more rust or patina for more color (the color is similar to oyster gray) to enhance the effect.

One last hint: With just a little help the etchant can "rust through" in places. This is done by cutting rough holes through the initial brass stock. The etchant will finish the job and give a pleasing rusted appearance to the edges. Keep in mind that both the etchant and the patina are poisonous and caustic; therefore, caution should be used in handling them. Neither material is flammable.

PRACTICE MAKES PERFECT

Remember that the techniques used on the steam shovel weren't meant for that model only. They're applicable throughout the hobby and, for the most part, in all scales. Each technique is best developed with practice, and no procedure should ever be tried on a finished model before you've experimented on plenty of scrap. Good luck! ☺

Your model in Paint Shop. We welcome reader contributions to this department. While Paint Shop most often deals with cars and locomotives, we'd also like to cover structures and scenic accessories that make interesting painting projects. "Contributing to MODEL RAILROADER" on page 4 explains what we need.

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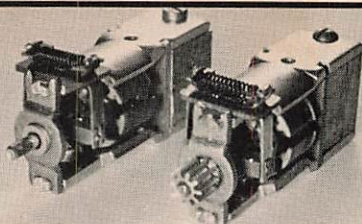
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ASK PAINT SHOP

Ask Paint Shop is a question-and-answer service of MR's Paint Shop department. Readers are invited to send questions about model painting techniques, and about prototype paint and lettering schemes, to: "Ask Paint Shop," MODEL RAILROADER Magazine, P. O. Box 1612, Waukesha, WI 53187.



Jim Shaughnessy

Vermont Ry. GP38-2 no. 201 wears the road's standard red paint scheme. Lettering and striping are white, the trucks and underframe are black, and the corner handrails are yellow.

I'm very interested in modeling the Vermont Ry. in HO scale. What shade of red is suitable for that road's diesel locomotives? Also, who makes decals for VTR engines and cars? — Christopher Nelson, Pelham, N. Y.

Judging from color slides we have on hand, Floquil no. 110065 Signal Red looks like a close match to the color used on Vermont Ry. units. Herald King offers sets of HO scale decals for VTR hood units (no. L-550), switchers (no. L-551), and boxcars (nos. B-551 and B-552). — Jeff Wilson

Kansas City Southern color update: In the Ask Paint Shop column in the October 1991 issue of MODEL RAILROADER, Philip Hoffman inquired about the correct color of KCS gray locomotives. I, along with some fellow members of the KCS Historical Society, have had good results painting our models with Scalecoat II no. 2020 Maintenance-of-Way Gray, Testor's Model Master FS 36320 Dark Ghost Gray, or Floquil no. 110009 Primer (with a few drops of no. 110050 Dark Blue added).

Of these, I prefer the Scalecoat II gray. That's because I wanted a gray that was light enough to show off the red lettering and numbers and still be dark enough to contrast with the white KCS diesels on my layout.

If it's any consolation, the prototype seems to be having as much trouble matching paint as we model railroaders are. Units have been painted by the KCS, EMD, and a number of rebuild companies, and there's a noticeable difference among them. So my advice to modelers is simply to pick a gray that looks good and stick with it; don't worry if it isn't an exact match. — Dave McMullen, Texarkana, Tex.



This shot of Union Pacific Erie-built no. 704, taken by Donald Sims, shows the correct placement of the UP shield and lettering.

Where can I get HO scale decals for early Union Pacific diesels? I'm trying to find a set with the appropriate heralds and lettering for the UP's Fairbanks-Morse Erie-builts. Please help out a naked yellow A unit! — Al Wilkinson, Barrie, Ontario

Anything to cover up a naked diesel, Al. Microscale set no. 87-109, UP passenger cabs 1948-71, includes the correct heralds and lettering. This photo shows the proper placement of the lettering and UP shield. — J. S. W.

The Paint Shop column in the August MR included a photograph of a Frisco (St. Louis-San Francisco Ry.) E8. The caption states that the lettering and nose and body stripes are "metallic chrome" outlined in white. When they were delivered, didn't the E units wear metallic gold stripes and lettering? — David Gaines, Birmingham, Ala.

The Frisco's lettering diagram for E units shows that the "gold" color was Dupont Duco 261-30890, which was officially named "Metalli-Chrome." The color does look like gold, so most books and magazine articles that make reference to the color simply call it "gold." Sorry for the confusion. — J. S. W.

Acrylic paint formula correction: My Pacra color mix chart in the October 1991 Paint Shop feature on acrylics had a formula with two numbers transposed. The formula for Southern Pacific scarlet should read: 12 parts A7, 9 parts A8, and 5 parts A14. I hope any modelers trying the mix that was listed were able to surmise that A12 (light green) shouldn't be a part of SP scarlet! — Roger Watkins

Nickel Plate caboose correction: Some incorrect information on prototype numbering crept into my November 1991 Paint Shop story on Nickel Plate Road cabooses. The scheme shown was originally applied to the road's cupola-style wood cars as well as steel cars acquired from the Wheeling & Lake Erie, numbered in the 700 series. As the NKP began building and buying steel bay-window cabooses numbered in the 400 series, the scheme was applied to them as well. — Montford Switzer

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| 8005 | 700E Scale Hudson | CALL |

| ROLLING STOCK SPECIALS | | |
|------------------------|------------------------|--------|
| 7901 | Chevron Tank Car | 45.00 |
| 9405 | Southern 6 Wheel Crane | 55.00 |
| 7607 | NYC Caboose | 69.00 |
| 7606 | Reading Caboose | 69.00 |
| 9811 | Monon Brakeman Car | 49.00 |
| 9910 | 1990 XMAS Car | 19.00 |
| 9107 | S.P. Full Vista | 90.00 |
| 9709 | Penn Work Caboose | 70.00 |
| 1201 | Rail Chief Cars | 475.00 |
| 8406 | Track Mtnce Car | 55.00 |
| 8013 | Disney Eng - No Case | 235.00 |
| 9403 | W.M. Gondola | 23.00 |
| 8008 | Disney w/Case | 279.00 |
| 6308 | B/N Flat w/Trailer | 50.00 |

| | | |
|------|----------------------|--------|
| 7607 | Chessie Caboose | 65.00 |
| 8204 | Chessie SD-40 Dummy | 155.00 |
| 7610 | Wabash Caboose | 70.00 |
| 9602 | Johnson Tank Car | 33.00 |
| 9710 | Frisco Caboose | 60.00 |
| 9519 | Frisco Stock Car | 28.00 |
| 9230 | Frisco Box Car | 29.00 |
| 9229 | Frisco Rallounds Car | 135.00 |

| 1992 TRADITIONAL ENGINES | | |
|--------------------------|-------------------------|--------|
| 8621 | West. Pac. 0-4-0 Loco | 195.00 |
| 6527 | West. Pac. Work Caboose | 26.60 |
| 8623 | T&P 4-4-2 Loco | 114.00 |
| 6531 | T & P Caboose | 26.60 |
| 8816 | CNW GP-38-2 | 143.00 |
| 6533 | CNW B/W Caboose | 27.75 |

| ROLLING STOCK 1992 | | |
|--------------------|-------------------------|-------|
| 6115 | Mkt Three Dome Tank | 21.00 |
| 6217 | B/N Auto Carrier | 32.25 |
| 6228 | U.P. Auto Carrier | 32.25 |
| 6341 | NYC Transformer Car | 22.20 |
| 6342 | CSX Coil Gondola | 21.35 |
| 6343 | Burl. Coil Gondola | 21.35 |
| 6345 | Sou. Pac. Tux | 64.00 |
| 6348 | Liquefied Petroleum Car | 24.50 |
| 6349 | Allis Chalmers Car | 23.40 |
| 6352 | Cruise Missile Car | 21.30 |
| 6703 | NYC Tool Car | 32.15 |
| 9319 | U.P. Four Bay Hopper | 21.25 |
| 9915 | I Love Texas | 22.25 |
| 6646 | Railbox w/ETD | 27.75 |
| 9528 | Joshua L. Cowen Reefer | 21.95 |
| 9529 | A.C. Gilbert Reefer | 21.95 |
| 6042 | N.P. Dining Car | 26.65 |
| 6048 | Amtrak Dining Car | 26.65 |
| 6049 | Illinois Central Diner | 26.65 |

| FAMOUS NAME BOXCARS | | |
|---------------------|----------------------------|-------|
| 9237 | Chgo and Illinois | 18.75 |
| 9238 | Kansas City Southern | 18.75 |
| 9239 | Toronto Hamilton & Buffalo | 18.75 |
| 9240 | Great Northern | 18.75 |

| ACCESSORIES/VEHICLES | | |
|----------------------|--------------------------|-------|
| 2798 | Fork Lift Loader Station | 57.90 |
| 2806 | Lionel Lumber Truck | 11.25 |
| 2808 | Mobile Tractor | 11.25 |
| 2811 | Alka Seltzer Trailer | 11.25 |
| 2805 | Intermodal Containers | 11.90 |

| 1992 COLLECTOR BOOK ONE | | |
|-------------------------|----------------------------|---------|
| 8016 | Nrthn Pacific 4-8-4 | 690.00 |
| 7615 | N.P. Standard Caboose | 75.00 |
| | Both For | 750.00 |
| 8305 | Lackawanna MU Dummies | 350.00 |
| 8018 | Southern 2-8-2 Mikado | 989.00 |
| 7613 | Southern Caboose | 75.00 |
| | Both For | 1045.00 |
| 8506 | Can. Natl Budd Cars | 325.00 |
| 9023-26 | Stmrn Pac. Madison Cars | 555.00 |
| 9412 | Frisco Six Wheel Crane | 56.00 |
| 9413 | Frisco Flat w/Stakes | 25.75 |
| 9657 | Wabash Bunk w/smoke | 55.00 |
| 9714 | NYC Searchlight Caboose | 95.00 |
| 9815 | D&H Brakeman Car | 67.90 |
| 7005 | Cargill Hopper | 36.00 |
| 7112 | Erie Lac. Hopper | 36.90 |
| 7207 | Chgo & Ill. Boxcar | 41.00 |
| 7208 | U.P. Double Door Box | 41.00 |
| 1724 | Great Northern F-3 A-B-A | 695.00 |
| 9116-20 | Great Nrthn Psngr Cars | 560.00 |
| | Complete G/N Passenger Set | 1229.00 |

| FALLEN FLAGS #6 NICKEL PLATE | | |
|------------------------------|--------------------------------|--------|
| 8505 | N.P.R. Double Headed GP-7's | 420.00 |
| 9236 | N.P.R. Double Door Boxcar | 34.00 |
| 9318 | N.P.R. Four Bay Hopper | 33.00 |
| 9411 | N.P.R. Flat w/Trailer Set Only | |
| 9527 | N.P.R. Reefer | 32.50 |
| 9603 | GATX Single Dome Tank | 36.70 |
| 7612 | N.P.R. Caboose | 75.00 |
| | Set Price | 655.00 |

| AMERICAN FLYER | | |
|----------------|----------------------------|--------|
| 9602 | Northern Pacific Psngr Set | 640.00 |
| 8117 | N.P. PB-1 w/rallounds | 165.00 |
| 8925 | N.P. Passenger Coach | 55.00 |
| | Complete N.P. Package | 850.00 |
| 8010 | Milw. Road "Little Joe" | 245.00 |
| 9006 | Milw Road Caboose | 41.00 |

| CLASSICS | | |
|----------|-----------------------|---------|
| 3003 | A.F. Presidential Set | 2625.00 |
| 3303 | 200 Series Tank | 220.00 |
| 3605 | 200 Series Boxcar | 220.00 |

| COLLECTOR BOOK TWO 1991 | | |
|-------------------------|--------------------------|---------|
| 8010 | Pennsy S-2 Turbine | 1445.00 |
| 1702 | Pennsy N-8 Caboose | 258.00 |
| | Both For | 1665.00 |
| 8304 | Lac. Commuter Cars | 470.00 |
| 1722 | The Girls Set | CALL |
| 9015-58 | Madison Car Set | 485.00 |
| 7004 | Mkt Centerflow Hopper | 33.50 |
| 7109 | N & W Three Bay Hopper | 34.40 |
| 7110 | U.P. Three Bay Hopper | 36.40 |
| 7111 | Reading Three Bay Hopper | 36.40 |
| 7203 | Cotton Belt Boxcar | 39.90 |
| 7204 | M.P. Double Door Box | 39.90 |
| 7902 | N J Zinc Tank Car | 50.00 |
| 7903 | Conoco Tank Car | 50.00 |
| 9409 | Southern Flat Car | 23.50 |

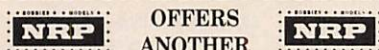
| SEMI SCALE FREIGHT CARS | | |
|-------------------------|----------------|--------|
| 1300 | Shell Tank Car | 115.00 |
| 1401 | Pennsy Box Car | 115.00 |
| 1501 | B and O Hopper | 115.00 |
| 1701 | NYC Caboose | 139.00 |
| | Set Price | 469.00 |

| AMERICAN FLYER | | |
|----------------|---------------------|--------|
| 9601 | Mopac Passenger Set | 505.00 |
| 8008 | N.H. EP-5 Electric | 240.00 |
| 8009 | Genl Motors GP-7 | 227.00 |
| 8310 | Mkt Boxcar | 28.00 |
| 8707 | N.H. Caboose | 33.00 |
| 8914 | Mopac Psngr Car | 60.00 |
| 8915 | Mopac Vista Dome | 60.00 |

| OPERATING ACCESSORIES | | |
|-----------------------|------------------------|--------|
| 2782 | Operating Lift Bridge | 365.00 |
| 2791 | Animated Psngr Station | 78.00 |
| 2768 | Burning Switch Tower | 95.00 |
| 2719 | Refreshment Stand | 58.00 |

| OLDER MPC | | |
|-----------|----------------------------|---------|
| 8003 | Chessie Steam Special | 949.00 |
| 8406 | Black Hudson | 900.00 |
| 785 | Grey Hudson | 900.00 |
| | Union Pacific Overland Set | 1595.00 |
| 8301 | Southern FM w/Cab | 495.00 |
| 9319 | TCA Mint Car | 289.00 |
| 8215 | N.P. Berkshire | 57 |

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We also have now ready our new price lists, which we will send along with the above set free, or you can order it for \$3.00 to finally have a reasonable priced source for your European Model Railroad Goods. In these lists, you will find all the good names of German Train manufacturers, suppliers of building kits and accessories, of transformers and other interesting items, as well as a listing of available catalogs. These lists are now printed in German Marks, and we will give you the best current Exchange Rate when we ship your orders.

The dollar has climbed since its all-time low this winter, so our prices are in effect quite a bit lower this year than they were last. You will be charged in dollars so there is no problem since we are a US owned company and bank in the States.

We also accept VISA and MASTERCARD accounts, US Postal Money Orders, normal Money Orders, and if you are known to us your personal check is ok.

P.S. We still have our own "FREEDOM-CARS" available; please see previous month's ad in this magazine!

Also our 1:1250 Ship Models Catalog is yours for \$3.00

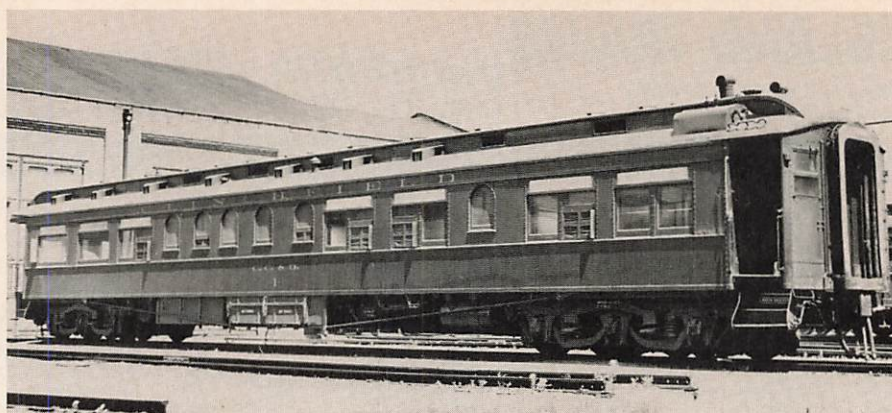
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This undated photograph of Clinchfield business car no. 1, which was taken by S. K. Bolton Jr., plainly shows the large "CLINCHFIELD" lettering as well as the placement of the car number.

I've painted several Athearn standard heavyweight passenger cars, and plan to letter them for the Clinchfield. However, I can't find a photo or diagram showing the spacing of the "CLINCHFIELD" lettering or the placement of the car numbers. You're my last resort. Help! — John Kurbach, Weddington, N. C.

Never fear, John. The accompanying photo of Clinchfield business car no. 1 shows the lettering scheme that was found on most of that railroad's passenger equipment. Note the "C. C. & O." (Carolina, Clinchfield & Ohio) lettering that's centered above the car number. — J. S. W.

I would like to paint a Union Pacific 4-8-2 and some standard passenger cars in the two-tone gray color scheme. Can you provide matches for this scheme using Scalecoat paints? — John C. Molls, Chicago, Ill.

The September 1988 issue of MODEL RAILROADER contained a Paint Shop feature on the UP's "greyhound" passenger steam locomotives. In that article, Andy Sperandio suggested using Floquil nos. 110150 D&H Gray and 110185 Guilford Gray. If you want to use Scalecoat, I'd suggest nos. 16 D&H Gray and 33 UP Dark Gray. — J. S. W.

More Ask Paint Shop on page 175

WEST COAST INTERCONNECT, INC.

* * Lionel Model Trains & Accessories in all Scales * *

Collector Items—1991

| | | |
|---------|--------------------------|-----------------|
| 18010 | Penn S-2 Turbine | call for avail. |
| 51702 | Penn N-8 Caboose | call for avail. |
| 18304 | Lackawanna Commuter Cars | call for avail. |
| 11722 | Girl's Train | call for avail. |
| 11700 | Conrail Set | SALE 650.00 |
| 19015-8 | Madison Cars | call for avail. |
| 11711 | Santa Fe A-B-A | call for avail. |
| 18007 | Southern Pacific GS-2 | call for avail. |
| 18011 | Classic T-1 & Caboose | call for avail. |
| 12791 | Animated Station | 82.95 |
| 13803 | Auto Racing set | 679.99 |
| 13807 | Extra St. Track | Ea. 17.99 |
| 51004 | Blue Comet | SALE 879.99 |
| 51300 | Shell Tank | 119.99 |
| 51401 | Penn Boxcar | 119.99 |
| 51501 | B & O Hopper | 119.99 |
| 51701 | NYC Caboose | 139.99 |
| 12781 | N & W Crane | SALE 219.99 |
| 12782 | Lift Bridge | 389.99 |
| 12791 | Animated Station | 81.99 |
| 17004 | MKT Hopper | 33.99 |
| 17109 | N & W Hopper | 34.99 |
| 17110 | U.P. Hopper | 38.99 |
| 17111 | Reading Hopper | 38.99 |
| 17203 | Cotton Belt Boxcar | 39.90 |
| 17204 | Missouri Pacific Boxcar | 39.90 |
| 17610 | Wabash Caboose | 75.99 |
| 17902 | NJ Tank Car | 51.99 |
| 17903 | Conoco Tank Car | 51.99 |
| 18406 | Operating Track Maint. | 89.99 |
| 18410 | Penn. Burro Crane | 119.99 |
| 19409 | Southern Flatcar | 22.90 |

American Flyer

| | | |
|-------|--------------------------|-----------------|
| 49601 | Missouri Pac. PA-1 set. | call for avail. |
| 48914 | Missouri Pac. Pass. car | call for avail. |
| 48915 | Missouri Pac. Vista Dome | call for avail. |
| 48008 | New Haven EP-5 | call for avail. |
| 48707 | New Haven Caboose | call for avail. |
| 49003 | U.P. Searchlight Car | 53.00 |
| 48310 | Missouri, Kan. & Texas | 28.49 |
| 48009 | General Motors GP-7 | 229.99 |

Collector Items—1990 & Earlier

| | |
|------------------------------|-------------------|
| Cars for So. Pacific GS-2 | call for avail. |
| 2300 Oil Drum Loader | 149.99 |
| 2318 Opr. Control Tower | 119.99 |
| 2323 Opr. Freight Station | 119.99 |
| 8404 San Fran. Trolley | 179.99 |
| 8578 Fallstamper | 149.99 |
| 11707 Silver Spike Set | 335.00 |
| Fallen Flags Set #3 | 599.99 |
| Fallen Flags Set #4 | 549.99 |
| Fallen Flags Set #5 | 549.99 |
| 18401 Lionel Hand Car | 49.99 |
| 18408 Santa Hand Car | 49.99 |
| 11705 Chessie Set | SALE 600.00 |
| 9224 Opr. Horse Car Set | 149.99 |
| 18005 700 E w/case | call for avail. |
| 8008 Disney w/case | call for avail. |
| 18009 L-3 Mohawk | call for avail. |
| 11713 Dash-8 set | 579.99 |
| 18503 So. Pacific Switcher | call for avail. |
| 18411 Can. Pacific Fire Car | call for avail. |
| 17900 Santa Fe Tank | call for avail. |
| 17901 Chevron Tank | call for avail. |
| 19801 Lighted Poultry Car | 49.99 |
| 61552 Burlington Limited Set | SALE 699.99 |
| 19515 Milw. Stock Car | SALE 26.90 |
| 19656 Milw. Smoking Bunk | SALE 45.90 |
| 51201 Rail Chief Car set | SUPER SALE - call |
| 17607 Reading Caboose | 69.90 |
| 185038 So. Pacific Pair SALE | call for avail. |
| 19707 | |

Large Scale

| | |
|--------------------------------------|-------------|
| 81007 Disney Magic set | 269.99 |
| 81008 Disney World | CANCELLED |
| 81000 Gold Rush set | 249.99 |
| 81004 North Pole set | 189.99 |
| 81006 Union Pacific set | 255.99 |
| 87207 Disney Handcar | 74.99 |
| 87200 Operating Handcar | 64.99 |
| 87203 Santa Handcar | 64.99 |
| —All cars, engines & track available | |
| 82000 or 82001 tracks | Please call |
| 82007 or 82008 switch tracks | Ea. 1.59 |
| All accessories available | Ea. 49.99 |
| | Please call |

Traditional Items

—All traditional items from Lionel are available

—All accessories, buildings & track items

—All side-track items like T-shirts, etc.

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| 12777 to 12785 Die Cast Vehicles | Ea. 9.99 |
| 19512-3 & 19522-3 Inventor Cars | Ea. 20.99 |
| 19228-31-32-33 Famous Name Boxcars | Ea. 18.99 |
| 18620 ILL. Central 2-6-2 & 6 Cars | call for avail. |
| 18609 N. Pacific 2-6-4 & 6 Cars | call for avail. |
| 18407 Snoopy Handcar | 54.95 |
| 18413 Charlie Brown Handcar | 54.95 |
| 18811 Alaska SD-9 Diesel Engine | 129.99 |
| 18812 Kansas GP-38 Diesel | 134.99 |
| 11714 Bandlands set | 84.99 |
| 11721 Mickey's World Tour set | 109.99 |
| 11726 Erie Lackawanna Set | CALL |
| 61602 Nickel Plate set | 189.99 |
| 16041 NYC Dining Car | 24.99 |
| 16104 Santa Fe Tank | 18.99 |
| 16113 Shamrock Tank | 19.99 |
| 16330 M.K. & T. Flat w/Trailers | 21.99 |
| 16332 Lionel Flat w/transformer | 21.99 |
| 16334 C & N TTUX Flatcar | 62.99 |
| 19655 or 19658 Tool Cars | Ea. 28.99 |
| 19912 I Love Ohio Boxcar | 21.99 |
| 12760 Highway Flasher | 36.99 |
| 12722 Roadside Diner w/smoke | 44.99 |
| 12771 Ma's Diner w/smoke | 44.99 |
| 13803 Auto Racing Set | 679.99 |
| 33002 Railscope IV | 85.00 |
| 33001 FA-2 Railscope HO | 199.99 |
| 55000 Large Scale Railscope | 199.99 |
| 33000 GP-9 Railscope | SALE 229.99 |

Standard Gauge

| | |
|------------------------------|---------------|
| 13804 437 Tower | 234.99 |
| 18618 B&O 4-4-2 Loco | 109.99 |
| 13702 200 Series Caboose | 180.99 |
| 13805 #1-44 Boat | 479.99 |
| 13602 1990 Seasons Greetings | SALE 139.99 |
| 13103 Blue Comet set | SALE 2,195.00 |
| 13102 Fireball set w/3 cars | SALE 1,099.99 |
| 13101 390 E set w/3 cars | 999.99 |
| 13802 17" Runabout | 479.99 |
| Special both boats | SALE 899.99 |

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|----------------------------------|----------|
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| Lionel Traditional 1983-84-85-86 | 3.00 ea. |
| Lionel Collector 1983-84-85-86 | 3.00 ea. |
| Lionel 1981, 1978 | 3.00 ea. |
| Lionel HO 1977 | 5.00 ea. |
| Large Scale 1988-89-90 | 3.00 ea. |

Track

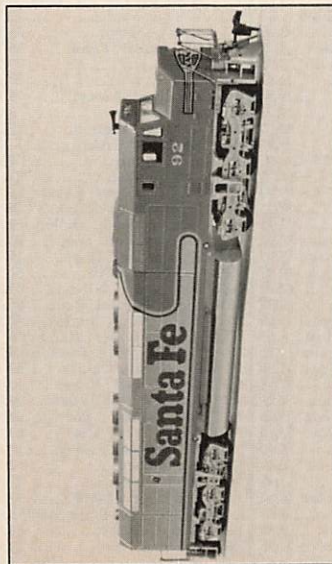
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|---|----------------|
| All Track Items Available | Please call |
| 65132 or 65133 Switch Track | SALE 33.99 ea. |
| 65572 072 Curve Track | 1.90 ea. |
| 65165 or 65166 072 Switch | 54.99 ea. |
| 65540 or 65545 Crossovers | 8.99 ea. |
| 65500 or 65501 St. Curve Tracks | 1.20 ea. |
| 65523 40" St. Track (min. 10) | 4.25 ea. |
| 65530 Remote—Uncoupling Track | 12.49 ea. |
| 65167 or 65168 042 Switches | 24.99 ea. |
| 65033, 65038, 65014, 65019 "027" Tracks | 65 ea. |
| 65024 35" St. Track (min. 10) | 2.49 ea. |
| 65543 or 65551 "027" Pins | 1.00 ea. |
| 65049 042 Curve Tracks | 1.25 ea. |

We also carry the complete Aristocraft/REA and Mantua lines

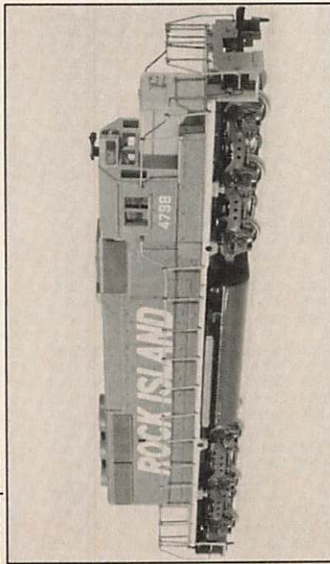
ATHEARN

LOCOMOTIVES ROLLING STOCK

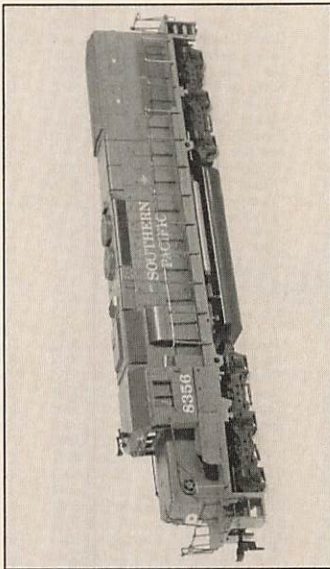
HO Scale



The EMD SD45 featuring the Santa Fe current red "War Bonnet" paint scheme. This engine offered 3600 H.P. and was available in both freight and passenger versions. Model features 12 wheel drive and duel fly wheels for smooth operation.



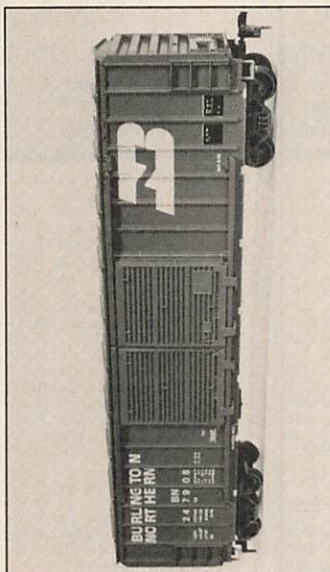
EMD SD40-2, prototype was rated at 3000 H.P., was one of the most popular locomotives in its class. Model features the usual Athearn 12-wheel drive and duel fly wheels. Assorted road names.



Another version of the SD40-2 was the 40-T2 designed for use in long tunnels with heavy trains, especially in the western mountains. Uses same Athearn drive as the SD40-2. Assorted road names.



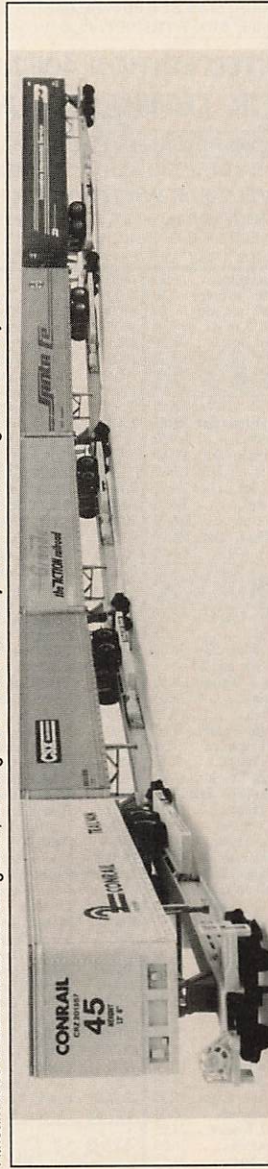
EMD SW1000, single stack and SW1500, double stack switchers. 8-wheel drives and fly wheels are featured. Assorted road names.



NEW ... 50 ft. double door rail box cars. Supurb printing, easy assembly and available in the following road names: U.P. of Oregon, Union Railroad of Oregon, Arcata & Mad River R.R., City of Prineville Railway, Southern Pacific, Burlington Northern, Yreka Western, Western Pacific, McCloud River R.R. Co., Milwaukee Road, Longview, Portland & Northern, Galveston Wharves, Camino, Placerville & Lake Tahoe and Undecorated.



NEW ... 45 ft. trailers for the "Impact" Piggy Back cars. Packed two to a kit. Usual Athearn quality and easy assembly. Road names include Santa Fe, Burlington Northern and Rio Grande. Athearn also offers an extensive line of 40 ft. trailers for use on the Piggy Back cars.



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1/92



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| 2061 | 0-4-0 Red Swiss Diesel Locomotive | 82.50 |
| 2070D | Gray Murtal Smoking Locomotive | 137.50 |
| 2071D | 0-6-2 Black Zillertal Smoking Loco | 121.00 |
| 2080D | 2-6-2 Black Smoking Stm. Tank Loco | 165.00 |
| 2085 | 0-4-0 Red Diesel Bogie Locomotive | 198.00 |
| 2118D | 2-6-0 Ylw Smoking Mogul Steam Loco | 297.00 |
| 2218S | 2-6-0 PRR Smoking Sound Mogul | 550.00 |
| 2901 | Green "Frank S" Live Steam Loco | 880.00 |
| 3062 | 4-Axle Green Coach | 44.00 |
| 3080/E01 | 4-Axle Green Pennsylvania Coach | 63.85 |
| 3081/E02 | 4-Axle Green Pennsylvania Combine | 63.85 |
| 3163 | 4-Axle Blue Zillertal Coach | 44.00 |
| 3164 | 4-Axle White and Blue Zillertal Coach | 49.50 |
| 3280 | 4-Axle Tuscan Red PRR Coach | 66.00 |
| 3281 | 4-Axle Tuscan Red PRR Combine | 66.00 |
| 3500 | Unpowered Yellow Street Car | 62.40 |
| 4032 | "Nestle's" White Boxcar | 33.00 |
| 4034 | "Cardinal Beer" Yellow Boxcar | 33.00 |
| 4065/E03 | Tuscan Red Pennsylvania Caboose | 49.50 |
| 4073/C03 | 4-Axle Black Rio Grande Gondola | 33.00 |
| 4074/B02 | 4-Axle White DSP&PRR Tiffany Reefer | 44.00 |
| 4076/X01 | 4-Axle Yellow Peabody Hopper | 44.00 |
| 4080/Y01 | 4-Axle Silver Transcontinental Tanker | 44.00 |

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| 00190E | LGB 90/91 Catalog | 5.50 |
| 001991US | Supplement #1 w/order | 5.00 |
| 001991S | Supplement #2 w/order | 5.00 |
| 0010E | Telegram #1, 3 or 4 | 4.15 |
| 0028E | Track Layout Book | 48.50 |

LGB SETS

| | | |
|---------|-------------------------|--------|
| 21401 | Freight Set.....Disc | 206.95 |
| 21540* | '91' US Christmas Set | 389.95 |
| 21988 | Circus Train Set | 169.50 |
| 21990 | Industrial Train Set | 165.00 |
| 22301 | US Pass. Set.....Disc | 199.95 |
| 22401 | US Freight Set.....Disc | 199.95 |
| 23301** | US Pass. Set..... | 236.75 |
| 23401** | US Work Set..... | 236.75 |
| 25301** | US LGB Pass. Set..... | 238.75 |
| 25401** | US Freight Set..... | 238.75 |

LGB TRACK

| | | |
|--------|---|-------|
| 1000 | 12" Straight Track | 3.60 |
| 1000/1 | 10 Rail Joiners | 3.95 |
| 1000/3 | Track Ties 1.55ea, 50 = | 76.00 |
| 1000/5 | Flex Rail 1-19pc add \$4 1-19 = 6.25ea; 20pc = 12.50 | |
| 1001 | Track Template | 25.95 |
| 1002 | Reversing Unit | 10.35 |
| 1004 | 1 5/8" Straight Track | 3.35 |
| 1005 | 2" Straight Track | 3.35 |
| 1007 | 3" Straight Track | 3.40 |
| 1008 | 3.25" Straight Track | 3.40 |
| 1009 | 3.5-4.75" Adjustable Trk | 12.40 |
| 1015 | 6" Straight Track | 3.95 |
| 1015K | Reversing Loop Set | 28.75 |
| 1015T | Dbl Insulated Track | 14.95 |
| 1015U | Sgl Insulated Track | 14.95 |
| 1021 | Rack Rail Cogs-12 Pcs | 18.85 |
| 1022 | 24 Rack Rail Joiners | 18.40 |
| 1031 | Bumper with Light | 7.40 |
| 1052 | Manual Uncoupler | 3.25 |
| 1056 | Electric Uncoupler | 29.25 |
| 1060 | 24" Straight Track | 6.60 |
| 1061 | 48" Straight Track | 14.25 |
| 1100 | 12" Curve | 3.60 |
| 1102 | 6" Curved Track | 3.75 |
| 1104 | 3" Curved Track | 3.45 |
| 1150 | 28 Track Locks | 2.45 |
| 1200 | RH Manual Switch | 24.95 |
| 1201 | Elec Sw Mechanism | 12.90 |
| 1203 | Auto Stop Switch | 10.50 |
| 1204 | Switch Position Light | 7.50 |
| 1205 | Right Elect Switch | 36.25 |
| 1210 | Left Manual Switch | 24.95 |
| 1215 | Left Elect Switch | 36.25 |
| 1226 | Double Slip Switch | 93.25 |
| 1236 | 3-Way Turnout EPL | 91.95 |
| 1300 | 30 Degree Crossing | 29.00 |
| 1310 | 90 Degree Crossing | 26.75 |

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| 1400 | Manual Turntable | 58.00 |
| 1500 | Curved Track | 6.65 |
| 1600 | Curved Track | 7.00 |
| 1605 | Right Elect Switch | 46.75 |
| 1615 | Left Elect Switch | 46.75 |
| 1700 | Track Contact | 9.00 |
| 1701 | Loco Magnet for 1700 | 3.50 |
| 1705 | Sound Trip Magnet | 3.50 |
| 20901 | Small Track Pack | 55.25 |
| 20902 | Large Track Pack | 88.75 |

LGB LOCOS

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|----------|------------------------|--------|
| 2001 | Inspection Hand Car | 54.75 |
| 2010/3 | Smoke Stack | 16.00 |
| 2010/4 | 1 1/2" Traction Tires | 6.40 |
| 2015D | 0-4-0 Loco & Tender | 242.95 |
| 2015S | Smoke Stack & Kit | 15.95 |
| 2015/4 | 0-4-0 Loco & Tender | 251.95 |
| 2018/4 | 1 3/16" Traction Tires | 11.95 |
| 2019S | Mogul w/Sound | 73.00 |
| 2019/2 | Knuckle Coupler | 3.50 |
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| 2020D** | Stalnz Loco | 156.75 |
| 20202 | Tram/Trailer Set | 302.40 |
| 20300 | Electric Loco | 143.25 |
| 20305 | Street Car | 190.75 |
| 2040 | Crocodile Loco | 369.95 |
| 2043 | RHB Electric Loco | 499.00 |
| 2051 | Red Diesel | 302.50 |
| 2055 | WP&Y Diesel | 405.50 |
| 2056* | Rio Grande Diesel | 449.00 |
| 2060H | Diesel Loco w/Horn | 155.95 |
| 2062* | Indust. Diesel Loco | 224.45 |
| 2063* | D&RGW Switcher | 239.00 |
| 2070/3 | Smoke Stack & Kit | 15.00 |
| 20707D** | Saddle Tank Loco | 90.40 |
| 2078 | 0-6-0 French Loco | 251.95 |
| 2078/3 | 15 Volt Smoke Stack | 15.50 |
| 2085D | Mallet Loco | 470.95 |
| 2085/3 | 5 Volt Smoke Stack | 15.50 |
| 2090 | Yellow Diesel Loco | 81.25 |
| 2096S | Diesel Sound Loco | 566.30 |
| 2146 | Rackrail Loco | 278.95 |
| 2150 | "Elias" Steam Tram | 158.50 |
| 2155S* | WP&Y Sound Diesel | 725.00 |
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| 2177D** | Saddle Tank Loco | 90.50 |
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| 2201 | Elec Motor w/bearings | 25.50 |
| 2217/6* | Black Tender | 98.50 |
| 2317/6* | Circus Tender | 98.50 |

PASS. CARS

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| 3000/1 | 2Ax w/spoke wheels | 4.50 |
| 3000/2 | 2 Trucks & Couplers | 7.75 |
| 3006 | Dodge City Car | 49.00 |

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|--------|------------------------|--------|
| 3010 | Green Coach | 54.50 |
| 3011 | Red & Beige Coach | 56.50 |
| 3013 | Blue Dining Car | 50.00 |
| 3015 | Blue & Beige Coach | 46.85 |
| 3016 | Restaurant Car | 54.95 |
| 3019 | Lit Baggage Car | 65.00 |
| 3019/1 | Steel Wheels | 9.95 |
| 3019/2 | Spoked Steel Wheels | 9.95 |
| 3019/3 | Electrical Contacts | 4.75 |
| 3020 | Green Sproccald Car | 65.25 |
| 3025 | Open Observation Car | 32.80 |
| 3030 | Coach Lights | 3.85 |
| 3031 | Tail Lights | 3.85 |
| 3031 | 1-Light&Stl.Wheels | 12.00 |
| 3036 | Circus Passenger Car | 60.00 |
| 3040 | Green Coach | 55.95 |
| 3041 | Red Excursion Car | 21.50 |
| 3061 | 4-Axle Brown Coach | 71.85 |
| 3067 | 4-Axle Swiss Coach | 29.50 |
| 3068 | 4-Axle Swiss Dining | 225.40 |
| 3069 | RHB Baggage Car | 104.95 |
| 3070 | 4-Axle Green Coach | 97.25 |
| 3072 | Fla Orange Boy Disc | 82.25 |
| 3073 | Red & Beige Coach | 82.25 |
| 3080CR | Circus Coach | 119.95 |
| 3081CR | Circus Combine | 119.95 |
| 3082 | US D&RG Coach | 99.60 |
| 3083 | US Yellow Combine | 96.75 |
| 3084* | D&RGW Bag. Car | 79.90 |
| 3106 | 2-Ax Grm Pass Coach | 41.95 |
| 3107 | 2-Ax Zill. Pass Car | 46.50 |
| 3125 | Circus Observation Car | 64.75 |
| 3167 | Green Swiss Coach | 166.75 |
| 3171* | DR Pass. Combine | 110.25 |
| 3172 | Krom & Whl Coach | 86.00 |
| 3180 | 4-Axle Red US Coach | 88.15 |
| 3181 | 4-Axle Red US Comb | 87.60 |
| 3206 | French Passenger Car | 60.00 |
| 3207 | Austrian Pass. Coach | 78.50 |
| 3264 | Schoellenbahn Coach | 84.75 |
| 3267 | "Furka" Swiss Car | 21.15 |
| 3307 | "Tamsweg" Car | 29.75 |
| 3407 | "Krauter" Car | 57.95 |
| 3530 | Repair Platform Wgn | 25.99 |
| 3907 | LGB Promo Coach | 47.50 |

FREIGHT CARS

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| 4000/1 | 2 Axes & Solid Whls | 4.75 |
| 4000/2 | Pair 2-Axle Trucks | 9.95 |
| 4011 | Gond w/Hatches | 37.95 |
| 4021 | Gond w/Doors | 31.40 |
| 4021CT* | Xmas Gondola | 50.20 |
| 4023 | Low Side Gondola | 31.50 |
| 4025 | Cement Silo Car | 60.00 |
| 4026 | Becks Beer Wagon | 61.10 |
| 4028 | Kronenbourg Beer | 61.10 |
| 4029 | Boissons Soda Car | 49.95 |
| 4030 | Brown Box Car | 38.50 |
| 4036 | Circus Animal Cage | 49.95 |
| 4037 | Cir. Gond. & Caravan | 30.15 |
| 4038 | Circus Cage Car | 41.35 |
| 4039* | Spreewald RR Car | 66.75 |
| 4040B | Black BP Tank Car | 50.00 |
| 4040C | Silver BASF Tank Car | 59.95 |
| 4040CR | Circus Tanker | 99.95 |
| 4040E | Rd&W ESSO Tanker | 49.95 |
| 4040L | Bele LEUNA Tanker | 41.80 |
| 4040S | Yellow SHELL Tanker | 50.50 |
| 4042 | Crane Car | 61.50 |
| 4044 | Coal Tipper Car | 15.50 |
| 4045 | Ore Car | 17.30 |
| 4046 | Stake Car w/Barrels | 14.95 |
| 4047 | Single Cask Wine Car | 21.70 |
| 4048 | Searchlight Car | 86.50 |
| 4055 | Cement Car | 48.50 |
| 4058* | 8-Axle Trans Car (Dec) | 111.50 |
| 4059 | Auto Transport | 79.95 |
| 4061 | 4-Ax Red US Gondola | 39.95 |
| 4065 | Red US Caboose | 30.50 |
| 4065L01 | LGB Caboose | Disc 51.25 |
| 4065W03 | Wh. Pass Caboose | Disc 51.25 |
| 4067 | 4-Ax Grm Log Car | 41.50 |
| 4067D01 | D&RGW Box Car | 30.75 |
| 4067F01 | NYC Box Car | 49.95 |
| 4067K01 | State of Me Box Car | 47.95 |
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| 4068N01 | Northwestern Stk Car | 51.50 |
| 4071* | WP&Y Caboose (Jan) | 111.50 |
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| 4072P02 | Gr/Wh C&M Reefer | 82.95 |
| 4074Z02 | Schultz Reefer | 63.80 |
| 4076 | E.Br.D Top Hopper | Disc 63.80 |
| 4076M01 | Burlington Hopper | 66.95 |
| 4076W02 | White Pass Hopper | 67.50 |
| 4078 | LGB Pulpmold Car | 65.80 |
| 4080 | 4Ax Bk Conoco Tnkr | 74.50 |
| 4080W01 | White Pass Tanker | 76.95 |
| 4080Y02 | Gramps Tanker | 63.75 |
| 4080Y03 | San Diego/AZ Tanker | 74.95 |
| 4085 | WP&Y Container | 79.95 |
| 4085CC* | LGB '91 Conv. Car | 84.00 |
| 4086 | WP&Y Ore Car | 80.95 |
| 4090 | Lake Geo. Box Car | 67.75 |

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| 4091 | D&RGW Box Car | 81.70 |
| 4110 | Low Sided Gondola | 33.30 |
| 4110CR | LowSide Circus Gond | 49.95 |
| 4111 | Covered Gondola | 40.65 |
| 4124 | MOB Hi-Side Gond | 35.25 |
| 4126 | Thum&Taxis Beer Car | 66.35 |
| 4127 | RHB "Domizil" Car | 61.75 |
| 4128 | Flowers&Veget Car | 59.95 |
| 4131 | Lowenbrau Box Car | 44.95 |
| 4135S | Box Car w/Sound | 102.50 |
| 4141 | Grey Hopper Car | 41.45 |
| 4143 | Graphite Mine Car | 18.65 |
| 4159 | Auto Transport Car | 81.75 |
| 4163 | OEBB Bicycle Car | 60.25 |
| 4165 | Circus Caboose | 62.00 |
| 4167 | WP&Y Boxcar | Disc 51.95 |
| 4168 | WP&Y Stakecar | Disc 57.95 |
| 4169 | 4-Axle Lumber Car | 33.95 |
| 4174 | D&RG Reefer | 67.00 |
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| 4228 | Henniez Freight Car | 54.95 |
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| 23010 | 2-42 B&O Dlx P-Set..... 314.95 | |
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| 31505 | Heavyweight Diner S Cies | 118.75 |
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| 46107 | Steel Stock Car SP | 37.50 |
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| 46201- 46220 | Refr..... 201-Pac Fruit Growers, 202-Schiltz, 203-Pabst, 204-Heinz, 205-Heinken, 206-Blatz, 207-Photo, "92" Miller, 209-Borden Cheese, 218-Rbn Hd Beer | 37.50 |
| 46301- 46305 | Flat Car..... 301-W MD, 302-GN, 303- ATSF, 304CB&Q, "92" PRR | 27.50 |
| 46350 | X-Mas Tree Flat Car..... | "92" |
| 46360 | Searchlight Car..... | Dec 42.50 |
| 46401- 46404 | Stoke Bulkhead..... 1-NP, "92" CP, 3-SP, 4-KSC | 32.25 |
| 46501- 46504 | Piggback & Trailers..... 501-REA, 502-SF, 503-B&O, 504-SP | "92" |
| 46601 | REA Trns Reel..... | 29.95 |
| 5400 | 1.8 Amp Power Pack..... | 36.95 |
| 5401 | Rheostat for the 5400 PP..... | "92" |
| 5450 | 3.5 Amp Power Pack..... | "92" |
| SET | Special Set Offer..... | 199.95 |
| | Rogers Loco, 2 Stoke Flat Cars, Reel, Caboose, Track, P/P & Wire. Rolling stock will be a random mix of road names | |

PLAYMOBIL

| | |
|--------------------------------------|--------|
| 1991 Catalog..... | 50 |
| 3245 Stage Coach..... | 19.49 |
| 3278 Covered Wagon..... | 19.49 |
| 3306 US General..... | 5.49 |
| 3319 Clown&Accordion..... | 3.25 |
| 3381 Sheriff..... | 3.25 |
| 3392 Clowns..... | 5.49 |
| 3395 Bandit..... | 3.25 |
| 3396 Indian Family..... | 7.49 |
| 3397 Trapper/Indian Canoe..... | 5.49 |
| 3423 Sheriff's Office..... | 32.99 |
| 3452 Circus Truck..... | 29.99 |
| 3461 Saloon..... | 32.99 |
| 3462 Drug Store..... | 32.99 |
| 3477 Circus Trailer..... | 29.99 |
| 3485 US Cavalry..... | 15.99 |
| 3514 Circus Animal Trailer..... | 29.99 |
| 3553 Circus Ring..... | 59.49 |
| 3711 Circus Elephant & Rider..... | 16.99 |
| 3729 US Artillery..... | 15.99 |
| 3731 Indian & Buffalo..... | 11.25 |
| 3732 Buffalo Dancer..... | 11.25 |
| 3733 Indian Camp..... | 32.99 |
| 3747 Gold Diggers..... | 15.99 |
| 3748 Western Bandits..... | 15.99 |
| 3749 Longhorn Trail..... | 15.99 |
| 3766 Water Tower..... | 32.49 |
| 3768 Western Ranch..... | 36.49 |
| 3769 Western Farm..... | 68.49 |
| 3770 Western Station..... | 75.99 |
| 3773 Fort Bravo..... | 75.99 |
| 3958 Western Train Set..... | 177.99 |
| 4002 Steam Loco Pass. Set..... | 169.99 |
| 4028 Diesel Freight Set..... | 154.99 |
| 4029 Steam Tender Freight Set..... | 246.99 |
| 4033 Western Train Set..... | 246.99 |
| 4051 Steam Locomotive..... | 68.99 |
| 4052 Steam Loco & Tender..... | 130.99 |
| 4053 Work Train..... | 83.99 |
| 4054 Western Loco & Tender..... | 119.99 |
| 4101 Cattle Car..... | 26.49 |
| 4104 Low-Side Gondola..... | 23.49 |
| 4105 Pipe Car..... | 26.49 |
| 4107 Shell Tank Car..... | 26.49 |
| 4109 Steel Girder Car..... | 43.99 |
| 4110 High-Side Gondola..... | 26.49 |
| 4111 Box Car..... | 26.49 |
| 4112 Operating Hopper Car..... | 26.49 |
| 4113 Container Car..... | 26.49 |
| 4120 Western Passenger Coach..... | 26.99 |
| 4121 Western Cattle Wagon..... | 26.49 |
| 4122 Western Freight Wagon..... | 26.49 |
| 4123 Caboose..... | 30.99 |
| 4202 Traveler Set..... | 21.49 |
| 4210 Mobile Crane..... | 43.99 |
| 4300 Main Street..... | 65.99 |
| 4301 Riverside Station..... | 48.49 |
| 4305 Freight Terminal..... | 60.99 |
| 5300 Large Victorian House..... | 174.99 |
| 5305 Small Victorian House..... | 104.99 |
| 5310 Den Suite Furniture..... | 17.49 |
| 5311 Child's Bedroom Furniture..... | 17.49 |
| 5320 Living Room Furniture..... | 25.49 |
| 5321 Bedroom Furniture..... | 25.49 |
| 5322 Kitchen Set..... | 25.49 |
| 5323 Patio Suite..... | 17.49 |
| 5340 Lover and Street Lamp..... | 8.99 |
| 5350 Advertising Column..... | 12.99 |
| 5360 House Fence/Bench/Lamp..... | 35.99 |
| 5400 Flower Vendor..... | 4.25 |
| 5401 Early US Photographer..... | 4.25 |
| 5402 Children & Wagon..... | 4.25 |
| 5403 Kids with Stils & Carriage..... | 4.25 |
| 5404 Artist with Painting..... | 4.25 |
| 5405 Officer and Orderly..... | 4.25 |
| 5406 Mother, Child and Baby..... | 4.25 |
| 5500 Lady and Maid with Dog..... | 6.25 |
| 5501 Farmer's Wife/Child/Car..... | 6.25 |
| 5502 Nanny, Kids & Babybuggy..... | 6.25 |
| 5503 Lady with Porter & Cart..... | 6.25 |
| 5506 Bicycle Messenger..... | 6.25 |
| 5507 Victorian Family..... | 6.25 |
| 5550 Organ Grinder/Kids/Dog..... | 12.49 |
| 5551 Piano & Accessories..... | 12.49 |
| 5581 Station, Guardsman & Kid..... | 15.99 |
| 5600 Dress Coach..... | 21.49 |
| 5620 Model T Car & Family..... | 21.49 |
| 5640 Model T Delivery Truck..... | 25.49 |
| 7051 12 Barrels, red & white..... | 5.79 |
| 7052 8 Pieces of Freight..... | 5.79 |
| 7610 Key Chain w/Logo Figures..... | 1.79 |

COLLECTOR SPECIALS

| | | |
|---------|---|--|
| 1982 | Annual Car, new w/box | |
| | was 100.....now \$68 | |
| 2020 | B-Series Stainz Steamer, like | |
| | new, no box, was 300.....now \$225 | |
| 3011 | A-Series Red/Cream Coach, little | |
| | use, bn box, was 250.....now \$195 | |
| 3064 | A-Series Rheatin Coach, slight use | |
| | yellow box, was 150.....now \$92 | |
| 3081 | D-Series D&RW Combine | |
| | slight use, no box.....\$190.00 | |
| 3081 | H-Series D&RGW Ylw Comb | |
| | new, w/box, was 150.....now \$125 | |
| 4021 | A-Series Gm highside Gondola | |
| | some use, no box, was 175.....now \$125 | |
| 4030 | A-Series Bm Box Car, slight use | |
| | no box, was 180.....now \$145 | |
| 4066 | B-Series Log Car, Nickel axle | |
| | slight use, yellow box.....\$125.00 | |
| 4067D03 | B-Series Santa Fe Boxcar, new | |
| | w/box, was 145.....now \$100 | |
| 4071 | REA Reefer, light use, no box | |
| | was 550.....now \$375 | |
| 4076D02 | Blue Santa Fe Hopper, new, | |
| | w/box, was 225.....now \$175 | |
| 4080Y03 | Rio Grande Water Car, w/box | |
| | was 150.....now \$109 | |

COLLECTOR SETS

| | | |
|---------|------------------------------------|--------|
| 1987SG | Red Schweizer Set..... | 300.00 |
| | new, with box | |
| 20301BZ | Blue Set..... | 450.00 |
| | slight use, w/box | |
| 20401RZ | A-Series Red Train Set..... | 295.00 |
| | slight use, w/box | |
| 20501 | D-Series Vedes Co. Set..... | 310.00 |
| | little use, w/box | |
| 20512 | Cardinal Beer Set..... | 370.00 |
| | slight use, w/box | |
| 20528 | Yellow Schweizer Set..... | 525.00 |
| | new, w/box | |
| 20529 | Green Schweizer Set..... | 270.00 |
| | slight use, w/box | |
| 20532 | 1985 Bundesgarten Set..... | 450.00 |
| | new, w/box | |
| 20701DC | 1982 Dodge City Little Billy | |
| | Set, new, w/box..... | 395.00 |
| 21981 | C-Series 1981 Jubilee Red Set | |
| | New '82, '83, '84-Couch, used '85' | |
| | Baggage Car, slight use | |
| | complete..... | 925.00 |

COLLECTOR

| | | |
|--------|--------------------------------|--------|
| 2010D | J-Series 0-4-0 Steamer..... | 109.00 |
| | Display, w/Box | |
| 3040 | A-Series Dark Gr Coach..... | 140.00 |
| | little use, bn box | |
| 4003A | Abele Container Car..... | 175.00 |
| | new, w/box | |
| 4003D | DHS Container Car..... | 130.00 |
| | new, w/box | |
| 4003S | Schneider Container..... | 195.00 |
| | new, w/box | |
| 4003SR | Spielzeug Ring Container..... | 62.00 |
| | new, w/box | |
| 4020 | Highside Straw Br Gondola..... | 175.00 |
| | some use, no box | |
| 4032L | B-Series Lowenbrau Car..... | 90.00 |
| | slight use, no box | |
| 4060 | J-Series Flat Car..... | 68.50 |
| | slight use, no box | |
| 4064 | C-Series D&RGW Refr..... | 210.00 |
| | light use, w/box | |
| 4066 | D-Series Log Car..... | 60.00 |
| | little use, w/box | |

USED

| | |
|---|--|
| Many Boxes Of Used 1000, 1060, 1100 and | |
| 1500 Track. Many Used 1200, 1205, 1210, | |
| 1215, 1605 and 1615 Switches. All @ 10- | |



WATTS' TRAIN SHOP

1/92

FREE SHIPPING
With \$75.00 ORDER



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"1-800-542-7652"

WATTS SPARKLE SHOP D56-SNOW VILLAGE

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|--------|-------------------------------|-------|
| 5070-9 | All Saints Church..... | 38.00 |
| 5077-6 | Bakery..... | 35.00 |
| 5082-2 | Jefferson School..... | 36.00 |
| 5089-0 | Farm House..... | 40.00 |
| 5044-0 | Village Market..... | 39.00 |
| 5123-3 | Cobblestone Antique Shop..... | 36.00 |
| 5140-3 | Stonehurst House..... | 37.50 |
| 5138-1 | Christmas Tree Lot..... | 33.50 |
| 5119-5 | Colonial Church..... | 60.00 |
| 5120-9 | North Creek Cottage..... | 45.00 |
| 5143-8 | Doctor's House..... | 56.00 |
| 5145-4 | Village Warming House..... | 42.00 |
| 5149-7 | J. Youngs's Granary..... | 45.00 |
| 5146-2 | Village Gazebo..... | 27.00 |
| 5168-3 | Kids Tree House..... | 25.00 |
| 5151-9 | Ice Cream Parlor..... | 42.00 |
| 5153-5 | Main Street Hardware..... | 42.00 |
| 5154-3 | Village Realty..... | 42.00 |
| 5156-0 | Prairie House..... | 42.00 |
| 5157-8 | Queen Anne Victorian..... | 48.00 |
| 5163-2 | Fresh Frozen Fish..... | 20.00 |

HERITAGE VILLAGE

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|--------|-------------------------------|-------|
| 5600-6 | Santa's Workshop..... | 72.00 |
| 5601-4 | North Pole Reindeer Barn..... | 35.00 |
| 5601-4 | North Pole Elf Bunkhouse..... | 35.00 |
| 5608-1 | Trimming The North Pole..... | 10.00 |
| 5609-0 | Santa & Mrs. Claus..... | 15.00 |
| 5610-3 | Santa's 3 Little Helpers..... | 28.00 |

SNOWBABIES

| | | |
|--------|------------------------------------|-------|
| 7939-1 | Asleep in Moon Ornament..... | 7.00 |
| 7940-5 | Penguin clips on tree light..... | 5.00 |
| 7941-3 | Polar Bear..... | 5.00 |
| 7943-0 | Holding Star..... | 20.00 |
| 7947-2 | Playing London Bridge..... | 30.00 |
| 7948-0 | Delivers Stars..... | 13.50 |
| 7951-0 | In a Moon Ornament..... | 8.50 |
| 7953-7 | Crawling, clips on tree light..... | 7.50 |
| 7962-6 | Pushing Snowball..... | 13.00 |
| 7963-4 | Forest Trees..... | 20.00 |
| 7974-0 | In a Gift Box..... | 17.50 |
| 7976-6 | Small, clips on tree light..... | 11.00 |
| 7977-4 | Holding Stocking..... | 12.00 |
| 7978-2 | Riding on Polar Bear..... | 30.00 |
| 7982-0 | Unwrap box w/Penguins..... | 32.50 |
| 7983-9 | Building a Snowman..... | 30.00 |
| 7986-3 | With Flute & Penguins..... | 27.50 |
| 7988-0 | With Trumpet Ornament..... | 27.50 |
| 7989-8 | In Gift Box Ornament..... | 12.00 |
| 7990-1 | Climbing on a Star..... | 7.50 |

MR. CHRISTMAS

| | |
|--|--|
| Santa's Marching Band | |
| A string of 8 lit musicians tumblin' 16 different brass bells to play 25 Christmas Carols in 4-part harmony..... | |
| Lighted Musical Bells | |
| 10 brass bells play 15 Christmas Carols in 4-part harmony..... | |
| Satellights | |
| Microcomputer light show; 150 lights w/ 242 functions, 16 patterns & speeds; 37.60 | |
| Jingl lights | |
| Santa ornament music box, musical light string, plays 21 Christmas Carols, lights go off and on to every note..... | |

STOCKING STUFFER

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|------|-----------------------------------|-------|
| 0021 | EPL Technique Book..... | 5.50 |
| 0035 | VHS Video Cassette..... | 42.95 |
| 0036 | Beta Video Cassette..... | 34.95 |
| 8010 | Metal Loco-shaped Lighter..... | 19.00 |
| 8015 | Metal LGB Logo Key Ring..... | 3.65 |
| 8017 | Bottle Opener, Self-righting..... | 1.90 |
| 8020 | Bear Stein with Pewter Lid..... | 52.95 |
| 8025 | Blue Cap w/Gold LGB..... | 6.85 |
| 8030 | 8 1/2" Dia. Pewter Figurine..... | 49.95 |
| 8036 | 3 pc LGB Coffee Service..... | 37.95 |
| 8037 | Tall Drinking Glass..... | 4.95 |
| 8040 | Burgundy Necktie w/Logo..... | 35.95 |
| 8041 | Tie Bar w/LGB Logo..... | 19.50 |
| 8070 | Red Wall Clock..... | 24.95 |
| 8071 | White Wall Clock..... | 24.95 |
| 8235 | Burgundy Umbrella w/Logo..... | 29.95 |

GREENERY

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| 100 | Deciduous Tree 4 1/2"..... | 2.20 |
| 700 | Dark Green Pine 8 3/4"..... | 2.95 |
| 701 | Dark Green Pine 11"..... | 3.40 |
| 702 | Dark Green Pine 12"..... | 3.75 |

DEPOT G

| | | |
|-------|--------------------------------|--------|
| 3052 | St. Linda's Church..... | 129.00 |
| 40601 | Lumber Load for 4060..... | 17.95 |
| 40604 | Sack Load for LGB 4060..... | 22.95 |
| 40613 | Crate Load for LGB 4061..... | 17.95 |
| 40614 | Covered Machinery 4061..... | 17.95 |
| 42521 | Coal Load Delton 4252 Hop..... | 13.95 |

NZG

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|-----|-------------------------------|-------|
| 163 | Green Dump Truck..... | 32.25 |
| 167 | Yellow Front Loader..... | 46.95 |
| 173 | Red Fork Lift..... | 14.95 |
| 182 | Yellow Fork Lift..... | 32.25 |
| 225 | Yw Caterpillar Fork Lift..... | 19.25 |
| 236 | Red Front Loader..... | 19.95 |
| 276 | Super Boom Loader..... | 19.95 |
| 294 | Super Boom Loader..... | 25.95 |
| 309 | Yellow Fork Truck..... | 24.65 |

BRITAINS

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| Zoo Animals & Access. | | |
| 1309 | Large African Elephant..... | 10.75 |
| 1310 | Medium Elephant..... | 8.50 |
| 1311 | Small Elephant..... | 7.75 |
| 1313 | Baby Elephant..... | 1.75 |
| 1319 | Baby Hippopotamus..... | 1.70 |
| 1345 | Tiger..... | 2.25 |
| 1346 | Tiger..... | 2.25 |
| 1349 | Baby Giraffe..... | 1.70 |
| 1350 | Giraffe..... | 4.75 |
| 1354 | Buffalo..... | 4.75 |
| 1367 | Stag..... | 1.70 |
| 1377 | Gorilla..... | 1.70 |
| 1397 | Zoo Railings..... | 9.95 |
| Farm Animals, Equip & Acc. | | |
| 1740 | Milk Cans..... | 1.95 |
| 9513 | Sanderson Forklift..... | 19.95 |

FISCHER

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|----------------------------|----------------------------------|------|
| We Stock 125 Differ. Items | | |
| Flocked Animals | | |
| 035 | Rabbit Sitting Up..... | 0.20 |
| 039 | Beaver Standing..... | 0.40 |
| Plastic Figures etc. | | |
| 15720 | Tiger Cubs Playing..... | 0.60 |
| 15762 | Gorilla Standing..... | 1.45 |
| 15764 | Chimpanzee..... | 0.95 |
| 15765 | Baby Chimpanzee..... | 0.75 |
| Trees, Bushes & Hedges | | |
| 408 | 2 Toddsters On Grass..... | 0.35 |
| Cowboys & Indians | | |
| 16827 | Indian Running with Spear..... | 4.20 |
| 16828 | Indian Creeping w/Hatchet..... | 3.55 |
| 16965 | Cowboy Shooting Rifle..... | 3.55 |
| 16996 | Cowboy On Horseback..... | 7.65 |
| 16998 | Cowboy on Horse w/Lasso..... | 7.65 |
| 17020 | Soldier Kneeling with Rifle..... | 3.95 |

ERTL-G SCALE

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| All Metal w/Rubber Tires | | |
| Paint Excellent; 14 Types | | |
| 7686 | 1931 Hawkeye Milk Truck | 17.95 |
| 9497 | 1926 Seagrave Fire truck | 21.95 |
| 9563 | Red Crown Horse & Wagon | 16.95 |
| 9663 | 1932 Ford Panel Truck | 13.95 |

GAMA

| | | |
|------|---------------------------------|-------|
| 2107 | Red Jeep..... | 12.25 |
| 2115 | Green Station Wagon..... | 12.60 |
| 2118 | Jeep with Surfboard..... | 16.75 |
| 2120 | Gold Opel Senator..... | 14.50 |
| 2301 | Heavy Duty Dump Device..... | 13.50 |
| 2308 | Green Tractor w/Sickle Bar..... | 12.60 |
| 2364 | Trailer with 2 Bulls..... | 7.00 |
| 2418 | Red/Orange Fork Truck..... | 14.50 |
| 9420 | Bobcat Front Loader..... | 11.75 |

JOUSTRA

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|------|-----------------------------|-------|
| 1438 | Telescope Truck..... | 18.55 |
| 3933 | Dock Crane..... | 23.75 |
| 4102 | Bulldozer..... | 12.55 |
| 4106 | Crane with 6 Functions..... | 33.40 |

JONES METAL FIGURES

| 100 hand painted figures & accessories | | |
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| A18 | Bench, Green or Red..... | 3.45 |
| A35 | Mailman..... | 7.95 |
| A37 | Skiing Santa..... | 9.95 |
| A38 | Man Skier..... | 7.95 |
| A39 | Woman Skier..... | 7.95 |
| A41 | Conductor with Dolly..... | 9.95 |
| A44 | Old Bench, Gray or Brown..... | 6.95 |
| A46 | Porter with Bag..... | 7.95 |
| EX151 | Painter with Brush..... | 7.95 |
| EX152 | Train Neck Tie w/ Music..... | 22.50 |

MODEL POWER

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|------|--------------------------------|-------|
| 1991 | Model Power Catalog..... | 2.50 |
| 1601 | Charley's Tavern..... | 41.00 |
| 1603 | Garden City Station..... | 47.50 |
| 1605 | Billy Winter's Farmhouse..... | 54.75 |
| 1606 | Timber City Station..... | 65.25 |
| 1614 | Oak Hill Shanty..... | 19.50 |
| 1616 | Budweiser Warehouse..... | 38.00 |
| 1619 | PS 1894 School..... | 57.00 |
| 1620 | Lime Springs Tower..... | 27.00 |
| 1622 | Aspen Ski Shack..... | 48.00 |
| 1623 | Pinkerton Outpost..... | 48.00 |
| 1624 | Fresh Farms Dairy..... | 93.75 |
| 969 | 2-Flashing X-ing Signals..... | 20.50 |
| 975 | Light Signal Bridge..... | 35.50 |
| 991 | 3-Light RR Sign..... | 21.30 |
| 993 | Billboard w/28 LED Lights..... | 35.50 |
| 997 | Goose-neck Wall Lamp..... | 11.85 |

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|---------------------------------------|---------------------------------|-------|
| Over 100 hand-painted quality plastic | | |
| Early American & Modern Figures, | | |
| Animals (Circus, Zoo and Wild) and | | |
| Cowboys & Indians (some w/horses) | | |
| 3304 | 3 Horses & 2 Foals..... | 14.25 |
| 3316 | 4 Cows & 2 Calves..... | 17.25 |
| 3321 | Family of 4 Deer..... | 9.65 |
| 5027 | 3 Teenage Girls..... | 14.55 |
| 5028 | 3 Delivery Men..... | 18.10 |
| 5050 | Early Engineer & Fireman..... | 11.80 |
| 5051 | Early Man Kissing Hand..... | 14.40 |
| 5052 | Early Passenger Couple..... | 14.40 |
| 5053 | Early Couple w/Parasol..... | 14.40 |
| 5054 | Early Person with Girl..... | 14.40 |
| 5055 | 3 Early Travelers Sitting..... | 15.70 |
| 5056 | 3 Early Travelers Sitting..... | 15.70 |
| 5057 | Early Dressed Up Couple..... | 14.40 |
| 5058 | Early Western Couple..... | 14.40 |
| 5059 | Early Vendor w/Customer..... | 20.60 |
| 5060 | Early Nursemaid with Child..... | 14.40 |
| 5061 | Early Woman w/Girl & Boy..... | 20.60 |
| 5062 | Early Family of Four..... | 23.75 |
| 5063 | Early Porter & Newsboy..... | 14.25 |
| 5064 | Early Seated Passengers..... | 17.80 |
| 5300 | Cow Grazing..... | 5.25 |
| 5315 | Pig Walking..... | 3.95 |
| 5317 | 3 Different Piglets..... | 7.15 |
| 5318 | 3 Different Rabbits..... | 3.60 |
| 5323 | 2 Different Cats..... | 3.35 |
| 5325 | Chickens & Chicks assorted..... | 9.35 |
| 5326 | 4 Ducks..... | 5.75 |
| 5328 | 4 Different Pigeons..... | 5.35 |
| 5335 | Shepherd..... | 7.75 |
| 5401 | Standing Giraffe..... | 10.45 |
| 5403 | Standing Lion..... | 5.10 |
| 5404 | Attacking Lion..... | 5.10 |
| 5405 | Sitting Lion..... | 6.30 |
| 5408 | Lying Tiger..... | 6.50 |
| 5409 | Walking Tiger..... | 7.50 |

DELTON

| | | |
|-------------------------|------------------------------|--------|
| 2264DW | DRGW; gm; Rail Bus..... | 154.95 |
| 2264M | Milw; om; Rail Bus..... | 154.95 |
| 2264RGS | RG&S; yw; Rail Bus..... | 154.95 |
| 2264S | Santa Fe Railbus, Red..... | 121.50 |
| 22001R | Railbus Sound w/ahoga..... | 123.00 |
| Sound Installation..... | | 48.00 |
| 2225C | C16 C&S Loco, Green..... | 359.00 |
| 2225D | C16D&RG Loco, DkRd..... | 359.00 |
| 2226DW | C16 DRGW Blk Loco..... | 415.00 |
| 2226BB | C16D&RG ywblk Loco..... | 395.95 |
| 3210DBB | Coach; D&RG; ywblk..... | 76.50 |
| 3211DBB | Combining; D&RG; ywblk..... | 76.50 |
| 3280-82 | C&S Set of 3; green..... | 231.85 |
| 3280-82 | DRGW Set of 3; Mahogany..... | 231.85 |
| 4255BB | Bush Beer, White..... | 53.00 |
| 4255BL | Bud Light; White..... | 53.00 |
| 4255MB | Michelob Beer; White..... | 74.00 |
| 4255MW | Menasha Wood Ware..... | 63.00 |
| 4255OC | Oppenheimer Casing..... | 63.50 |
| 4255WW | Westcott Dairy..... | 63.00 |
| 4255SB | Strich's; mahogany..... | 74.00 |

ARISTOCRAFT

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|------|---------------------------------|-------|
| 7100 | Victorian Train Station..... | 62.95 |
| 7101 | Covrd Bridge 11" H x 20" L..... | 38.95 |
| 7102 | 40" Wooden Truss Bridge..... | 69.95 |
| 7103 | US Water Tower..... | 61.95 |
| 7104 | 24 pc Over & Under Trestle..... | 15.95 |
| 7105 | Covered Station Platform..... | 34.95 |
| 7106 | 12 - 8 3/4" Trestles..... | 17.95 |
| 7107 | Large Victorian Barn..... | 89.99 |
| 7108 | Brass Supports to 7104 & 5..... | 4.95 |
| 7109 | Watch Tower Lit w/Smoke..... | 41.95 |
| 7110 | Dbl Track Signal Bridge..... | 18.75 |
| 7114 | 2-26" Power Train Towers..... | 13.95 |

NOCH

| | |
|---|-------|
| Trees, grass, roads, lights, bridges, loads | |
| tunnels, walls, roofs, figures, rocks, etc. | |
| 29 Lt Grn Grass Mat 40"x10" | 16.35 |
| 624 3Fields; Grass, Crops, Stubble | 5.00 |
| 2217 3" Fruit Tree w/Blossoms | 1.10 |
| 2246 6" Pine Tree | 2.00 |
| 2255 6" Spruce Tree | 2.30 |
| 2358 2-4 1/4" Birch Trees | 6.20 |
| 2361 2-7" Poplar Trees | 8.85 |
| 2365 2-8" Oak Trees | 9.00 |
| 2410 4" Fir Tree | 1.25 |
| 2413 5 1/2" Fir Tree | 1.25 |
| 2418 7" Fir Tree | 1.35 |
| 2586 5-1 1/2" Shrubs, assorted. | 4.75 |
| 4268 Assorted Deciduous Trees | 5.00 |
| 6718 Wood pile, log stack, stumps | 15.00 |
| 6721 Bench, Barrels & Crates | 13.00 |
| 6722 6 Benches, 3 red, 3 green | 13.00 |
| 6732 Tunnel Entrance Portal | 3.50 |
| 6737 Operating Fountain | 39.95 |
| 6740 10 Road Signs | 5.50 |
| 6748 Footbridge | 6.85 |
| 6756 Log Load for 2-axle Flat Car | 15.60 |
| 6759 Castle Ruins | 70.15 |
| 6760 Tunnel 3'x4 1/2"x22" w/Ship | 69.95 |
| 6761 24" Tunnel w/grass&rocks | 32.85 |
| 6764 16" Tunnel w/grass&rocks | 23.00 |
| Gray Sidewalk, 4 pc-3"x26" | 24.00 |
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What were the numbers of the SP E7s? Also, who makes decals for the Daylight scheme? — Chris Myers, Downey, Calif.

The Southern Pacific rostered 5 E7 A units, which were originally numbered 6000A-6004A (one appears in this SP photo). The SP's 12 E7 B units were numbered 6000B-6004B, 6000C-6004C, and 6011B and C (6011B and C were first built for the *City of San Francisco* streamliner). The SP also had a rebuilt E2, no. 6011A, which it termed an E7AM.

In 1949 the letter suffixes were dropped from the road numbers. The A units kept their numbers (except for 6011A, which became 6017). The B units were renumbered 5900-5909 and 5916-5917.

The 6003 and 6004 sets were built in August 1947 and delivered in *Daylight* colors. The other E7s were delivered in *Golden State* colors, but had been repainted in the *Daylight* scheme by 1950.

Champ decal set BRH-22 should work fine for HO units. — J. S. W.

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Bob Montague

Members of the Pittsburgh Model Railroad Historical Society are putting a lot of time and effort into their new HO scale Mon-Valley System. Here, a Tuesday evening work crew checks plan details before getting down to work. The crew includes Ralph Stumpf, Don Drinkhall, John Lynd, Ray Mueser, Bill Humphrey, Bob Smith, Vince DeGrazia, Stanley Rosskamp, and Jim Kendall.



Club news

Model railroad clubs are invited to contribute items about their hobby activities for inclusion in this column. All listings for the New Clubs or Membership Open sections must include:

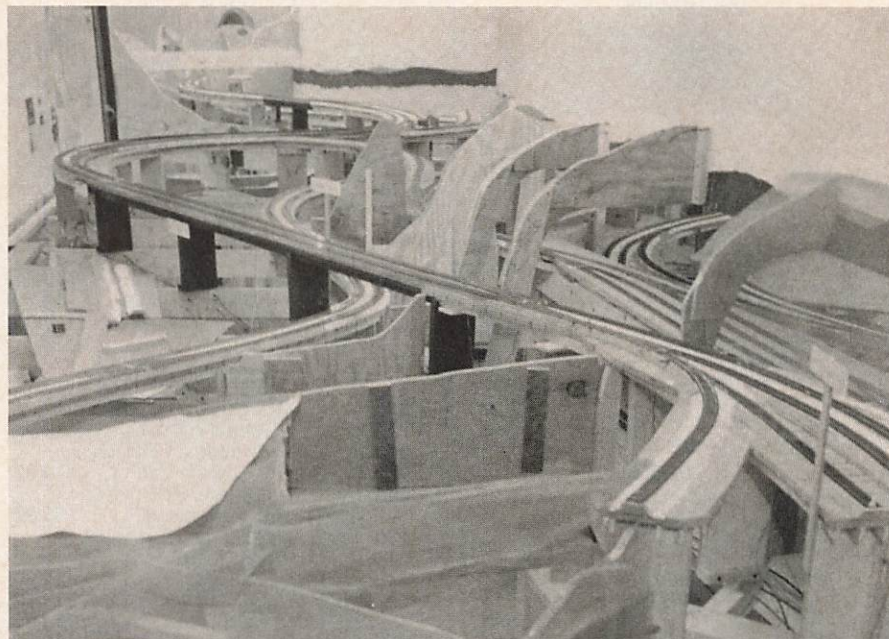
1. State and city in which the club is located
2. Name of the club
3. Scale(s) and gauge(s)
4. Street address of the clubroom
5. Meeting time(s)
6. Name and telephone number of a contact person
7. Name, address, and signature of the person submitting the information.

Please send all this information to "Club News," MODEL RAILROADER Magazine, 21027 Crossroads Circle, P. O. Box 1612, Waukesha, WI 53187. Inquiries to clubs should include a stamped, self-addressed envelope.

THE Pittsburgh Model Railroad Historical Society has been making steady progress on their new HO scale Mon-Valley System. Club members are

now well along on construction of the 4,000-square-foot model railroad, with the benchwork nearly complete. Track-laying and installation of a computerized control system are progressing well, and some scenery is under way.

The M-V System is being modeled as a free-lanced composite of favorite railroads in western Pennsylvania. It's conceived as a Class 1 railroad that connects Pittsburgh with the Midwest and with various East Coast port cities during the 1950s. This choice allows a wide range of steam and diesel locomotives, rolling stock, and trains to accommodate different interests. As the system takes shape, the scenery will depict the region during Pittsburgh's



Bob Montague

Wide sweeping curves, long runs, and scenery that's based on specific prototype locations all characterize the new Mon-Valley System. When completed, this huge HO scale railroad will provide a look at western Pennsylvania railroading and industry as they appeared during the 1950s.

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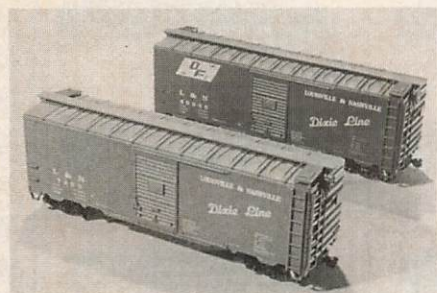
Naturally, a project of this scope takes a great deal of time and effort. Everyone contributes as much time as possible, with work sessions taking place during the day, evening, and weekends.

General membership meetings are held at 8 p.m. on the third Friday of every month. Visitors are welcome on Friday evenings between 7 and 10 p.m.

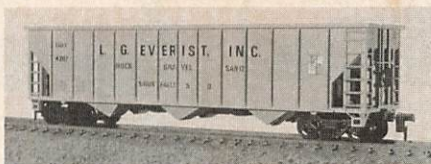
The PMRHS is located in Gibsonsia, Pa., about 15 miles north of Pittsburgh, at the intersection of Hwy. 910 and Lakeside Dr. (between Hwy. 8 and Hwy. 19). For further information, contact the club by mail at 5507 Lakeside Dr., Gibsonsia, PA 15044, or by telephoning 412-444-6944. — *Jim Hediger*

End of an era: A letter from Tom Wortmann of the Staten Island (N. Y.) Society of Model Railroaders Inc. reports that they have recently completed the teardown of their permanent HO layout. In common with many clubs who rent space, the spiraling costs of housing a permanent layout outgrew their resources. Despite the loss of the layout, the club's fellowship and construction activities are continuing with a new emphasis.

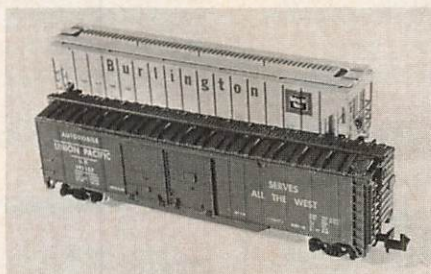
The group has decided to shift into building a modular layout. This means construction can now be done almost anywhere, with most of the resources devoted to the layout rather than housing. Meetings and work sessions are held at the homes of various members, and the full layout is assembled and run at a variety of local shows so members can still enjoy operation. — *J. D. H.*



L&N boxcars: Division 8 of the National Model Railroad Association's Mid-Central Region is now offering HO scale Accurail 40-foot boxcar kits custom-decorated in two different Louisville & Nashville RR color schemes with Dixie Line slogans. One car is boxcar red with white lettering; the other is blue with the lettering and DF emblem in yellow. Two different car numbers are available in each color. Individual kits are \$9, plus \$3.50 shipping (one or two kits); a four-car set is \$36, plus \$4.50 shipping. The kits may be ordered from Division 8 L&N Cars, 5112 Braidwood Dr., Louisville, KY 40219.



L. G. Everist hoppers: The Sioux Valley Model Engineers Society is currently selling Con-Cor HO scale 100-ton triple hoppers that are custom-decorated for L. G. Everist Inc., a quarry located in Sioux City, S. Dak. The models are painted orange, with black and white graphics. They're sold in sets of four individually numbered cars priced at \$30, plus \$3.50 shipping. The hoppers can now be ordered from the SVMES, % Larry Feay, 2301 W. Bailey St., Sioux Falls, SD 57104.



Denver N scale cars: The Denver Area N Scale Club is selling a pair of custom-decorated freight cars that were made as souvenirs of the 1991 N scale national convention. One is an Atlas 50-foot Union Pacific automobile car that comes in boxcar red with white and yellow lettering. It sells for \$7.50. The other car is a Precision Masters Burlington covered hopper in gray with red, white, and black graphics and Denver, South Park & Pacific (DSP&P) reporting marks. It's priced at \$8. A \$3.50 shipping charge must be included for one to six cars. The cars may be ordered from Dentrak '91, 7110 Routt St., Arvada, CO 80004.

MEMBERSHIPS OPEN

California, San Rafael: North Coast Model Railroad Society Inc. (HO), 2416 1/2 Fifth St. (rear). Fri. 7:30 p.m. Box 2866, 94902. Bob Burton 415-456-6451, or David L. Illich 924-8107.

Connecticut, Ridgefield: Westchester Society of Model Engineers, New Haven & Hartford Chapter (HO), Otto Vondrak, 72 Cantitoe St., Katonah, NY 10536.

New York, Bedford: Westchester Society of Model Engineers, New York Central Chapter (HO), Otto Vondrak, 72 Cantitoe St., Katonah 10536.

North Carolina, Asheville: Land O' Sky Railroaders, NMRA Mid-Eastern Region Div. 8 (Ntrak, HO) CP&L Bldg., 1-40 and Hwy. 191. 1st Wed. Kent Roberts 704-648-6993, or Craig Weeke 298-8809.

Pennsylvania, Bethlehem: Black Society of Model Engineers (multiple scales), 900 E. Macada Rd. Tue. 7:30 to 10:30 p.m. J. M. Sanderson; 215-252-3185. **Greentown:** Westchester Society of Model Engineers, Lackawaxen & Stourbridge Chapter (HO), Otto Vondrak, 72 Cantitoe St., Katonah, NY 10536.

NEW CLUBS

Idaho, Pocatello: Pocatello Model Railroaders (O, HO), 343 E. Bonneville. Wed. 7 p.m. Pete Petersen 208-238-0837.

Oregon, Hood River: Mid-Columbia Model Railroad Club (N, HO), 1528 Columbia St. Fred A. Lenhart, same address 97031; 503-386-7968.

Pennsylvania, Lansdale: Keystone N-Trak (N modular), United Methodist Church, Fourth and Broad Sts. Stan Houpt 215-584-8987; Dave Seguin 783-5779; or Rich Bortz 968-2043.

Virginia, Reston: Northern Virginia N-Trak (N modular), Northern County Governmental Center, Cameron Glen Rd. Sun. eve. Dennis Austin 703-444-7198 eve. ☐

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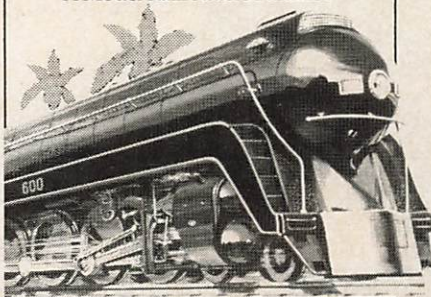
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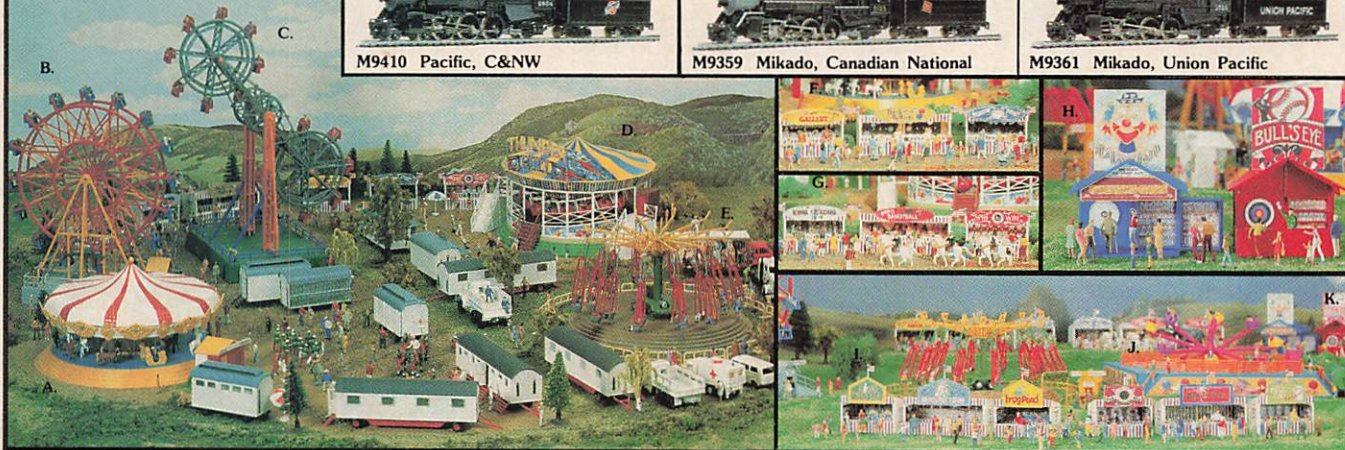
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| | 6585 RPO |
| | 6587 Roomette |
| | 6588 Vista Dome |
| | 6589 Duplex Sleeper |
| | 6590 Diner |
| | 6591 Tail Car |
| 1920 Missouri Pacific (Blue/Grey) | 1930 Pennsylvania (2-Tone Grey) |
| 6024 Baggage | 6618 Roomette |
| 6025 BPO | "Imperial Park" |
| 6026 Combine | |
| 6027 Coach | |
| 6028 Diner | |
| 6030 Duplex Sleeper | |
| 6031 Observation | |

1940 AMTRAK (Silver/Red/White/Blue)
6620 Grill

1940 Burlington (Silver)
6650 Grill

1940 Florida East Coast (Silver)
6690 Grill

1940 Louisville & Nashville (Silver)
6851 Coach

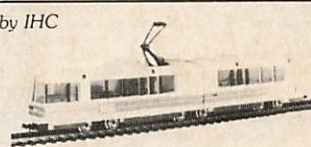
1940 PRR "Congressional" (Silver/Tuscan)
6732 Roomette

1940 Southern (Silver)
6801 Coach

1940 Union Pacific (Yellow/Grey)
6820 Grill

HO Scale Light Rail Vehicle by IHC

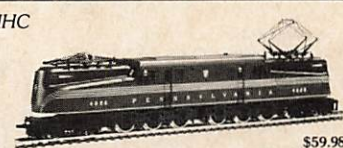
For all those interurban fans out there, IHC brings you the modern LRV! Great for city scenec or commuting from the suburbs to the city. Our model faithfully reproduces the famous San Francisco MUNI. This model features a terrific and accurate paint finish. You should own at least one of these beautiful models as a collector item. Order while they're still in stock.



\$39.98 ea. M9386 SF, MUNI

HO Scale PRR GG-1 by IHC

Easily the most famous electric locomotive, the Pennsylvania Railroad used these versatile locomotives for their crack passenger trains. Later these locomotives were regeared for freight service. IHC's beautiful model recreates this fine locomotive in both Tuscan red and Brunswick green. Every model railroader should own at least one of these beautiful models.

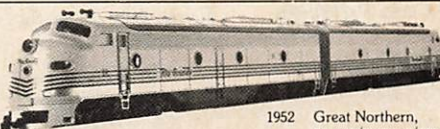


\$59.98 ea.
M9300 Tuscan Red
M9301 Brunswick Green

**HO Scale E-8
A Powered +
A Dummy**

by Rivarossi
Reg. \$136.98 ea.
SALE \$89.98 ea.

1941 GM&O, maroon/red
1942 NJT, silver/black
1943 FEC, red/yellow
1945 ACL, purple/silver
1947 Erie Lack., maroon/grey
1948 MoPac, "Col. Eagle", blue/grey
1950 BN, green/white
1951 Milwaukee, maroon/orange



1926 ATSF, silver/red
1927 NP, green/brown
1929T IC, orange/tan
1934 AMTRAK, silver/red/blue
1935 Erie, 2-tone green
1936 KCS, black/yellow/red
1937 RI red/yellow
1938 Frisco, red/gold
1939 CP, burgandy/lt. grey
1940 Milwaukee, yellow/grey

1952 Great Northern, orange/maroon/green
1954 VIA, yellow/blue
1955 NH, orange/black/white
1956 Monon, red/grey
1957 D&RGW, yellow/black
1958 N&W, maroon/red
1959 GS, red/silver
1961 D&H, grey/blue
1962 C&NW, yellow/green
1963 LV, tuscan red
1965 Reading, green/yellow

HO & N Scale Mini-Things by IHC



42-3311 Train Work Crew



42-2309 Park Assortment

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Canadian Pacific, black/wine red
C&O, blue/yellow/grey
Chicago & Alton, red/maroon
C&NW, yellow/green
Delaware & Hudson, green/grey
D&RGW, yellow/black
Erie, 2-tone green
FEC, yellow/red
"Golden State", red/silver
GN, brown/orange/green
Illinois Central, orange/brown
KCS, black/yellow/red
Lackawanna, maroon/grey
Lehigh Valley, tuscan
Milwaukee, yellow/green

Monon, red/grey
MoPac, blue/grey
Northern Pacific, green/brown
N&W, maroon/red
Pennsylvania, brunswick green
Pennsylvania, tuscan
Reading, yellow/green
Rock Island, red/yellow
Southern Pacific, orange/red
So. "Crescent", 2-tone green



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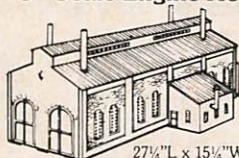
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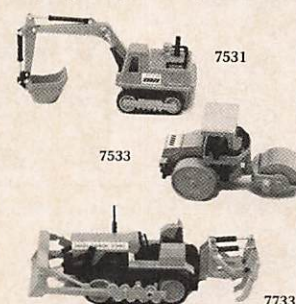
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| 7551-2 | Motorbikes, 2 Styles, 6 Asst. Colors | 5.15 |
| 7603 | Tractor with Front Loader | 7.30 |
| 7604 | Tractor w/Snowplow & Backhoe | 7.60 |
| 7701 | Tractor w/Backhoe & Front Loader | 8.65 |
| 7733 | Bulldozer w/Front Blade & Ripper | 8.65 |
| 7801 | Tractor w/Tank Trailer | 8.15 |
| 7802 | Tractor w/Pan, Trailer | 7.85 |
| 7803 | Tractor w/Pan & Cage Trailer | 8.15 |
| 7804 | Tractor with Haybaler | 9.20 |
| 7805 | Tractor w/Excavator Dumper | 9.20 |
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Heavy electrics handle most of the standard gauge rail traffic throughout Switzerland. In this photo from Swiss Federal Rys., one of its locomotives is leading a northbound freight out of the 9-mile-long St. Gotthard Tunnel near Göschenen. The meter-gauge Schöllenenbahn Line heads up the gorge toward Andermatt through the single-track tunnel that's visible just above the cab.



Bull session

Conducted by Jim Hediger

This column features brief commentary, anecdotes, human interest stories, oddities, photos, and items that really don't fit elsewhere in the magazine. Please write "Bull Session" at the top of your letter and mail it to MODEL RAILROADER Magazine, 21027 Crossroads Circle, P. O. Box 1612, Waukegan, WI 53187. Payment is made upon publication.

LAST FEBRUARY I had the opportunity to attend the Nuremberg Toy Fair in Germany. Since this was my first transatlantic visit, I teamed up with Bill Wischer, the product development manager from Wm. K. Walther's Inc. Bill has made this trip several times before, so he served as my "native guide."

As I prepared for the trip, George Drury's softcover book, *The Railfan's Guide to Switzerland*, provided some excellent advice on luggage: "Two pieces maximum." Specifically, it advised using a wheeled suitcase with a towing strap and a small over-the-shoulder combination camera and travel bag as the second piece. The soundness of this advice proved itself many times over.

In the weeks before our trip, the Persian Gulf crisis grew, with Operation Desert Storm commencing just before our departure. With some misgivings and numerous schedule changes, Bill and I decided to proceed, expecting to find heightened security along the way. We weren't disappointed.

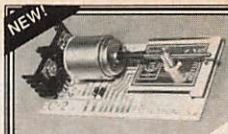
Security was everywhere. Everything and everybody was checked and searched before each flight, and all personal baggage had to be claimed at each intermediate point. We flew into Zurich, Switzerland, and found that even this traditionally neutral country wasn't taking any chances. Heavily armed troops patrolled the airport and all major railway stations. Their presence was comforting yet a bit disconcerting since we're not used to seeing so many automatic weapons.

Bill and I had Eurailpasses for first-class travel throughout Europe. We started by having them validated at the Swiss Federal Rys. ticket office in the airport. Then we took an escalator downstairs for access to the railway station and numerous trains into the city. Rudy Mertz, owner of the MZZ model firm, met us at the hotel to begin a series of personally guided train rides on the Swiss railroads.

These circle trips out of Zurich included regular mainline runs and alpine meter (narrow) gauge lines. One memorable trip was on the *Glacier Express*, a train jointly operated by the Rhätische Bahn, Furka-Overalp, and Brig-Visp-Zermatt railways. We rode the *Glacier Express* between Chur and Andermatt, climbing grades as great as 11 percent using a rack-and-gear system.

Next, a branchline trip took Bill and me from Andermatt, down the Schöllenenbahn, to the standard gauge main line at Göschenen, descending an incredible 17.9 percent grade en route! This last lap on the narrow gauge came

More Bull Session on page 186



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| 1910 Southern (Modern) | 6.40 |
| 1910-1 Southern (Modern) | 6.40 |
| 1911 Louisville & Nashville | 6.40 |
| 1911-1 Louisville & Nashville | 6.40 |
| 1912 Pennsylvania | 6.40 |
| 1912-1 Pennsylvania | 6.40 |
| 1919 Canadian National (Modern) | 6.40 |
| 1919-1 Canadian National (Modern) | 6.40 |
| 1920 Missouri Pacific | 6.40 |
| 1920-1 Missouri Pacific | 6.40 |
| 1921 Santa Fe | 6.40 |
| 1921-1 Santa Fe | 6.40 |
| 1924 Conrail | 7.95 |
| 1925 New York Central (Tuscan) | 7.20 |
| 1926 Pennsylvania | 7.20 |
| 1927 Pittsburgh & Lk. Erie (Tuscan) | 7.20 |
| 1928 Southern Pacific (Modern) | 7.95 |
| 1929 Union Pacific (Modern) | 7.95 |
| 1941 Alaska | 7.95 |
| 1942 CSX (Black) | 7.95 |
| 1943 Erie | 7.20 |
| 1944 Lackawanna (Black) | 7.20 |
| 1945 Lehigh & New England | 7.95 |
| 1946 Lehigh Valley (Black) | 7.20 |

55' ACF Centerflo Covered Hoppers

| | |
|--|--------|
| 225-1 D&H (Red) | \$7.95 |
| 235-1 Chemplex Plastics (White) | 8.75 |
| 850-1 Vermont RR (Yellow) | 7.95 |
| 1409 Hercules "Hi-Fax/Pro-Fax" | 7.20 |
| 1740 Potash Co. of Sask. | 9.60 |
| 1781 Shell Chemical "Plastics" | 9.60 |
| 1782 A.D.M. (Yellow) | 9.60 |
| 1783 CPC International | 9.60 |
| 1784 Scoular "Corn Herald" | 9.60 |
| 1785 Dependable Feed | 9.60 |
| 1786 A.D.M. "Corn Sweeteners" | 10.40 |
| 1787 Canadian National "Census of Agriculture" | 10.40 |
| 1788 Chessie B&O "Action Safety" | 9.60 |
| 1789 Chessie C&D "Action Safety" | 9.60 |
| 1794 Chessie-WM "Action Safety" | 9.60 |

| 50' Single Door Box Cars | |
|--|--------|
| 1762 Ontario Northland "Newsprint" | \$7.20 |
| 1763 British Columbia "Edelweiss" | 8.75 |
| 1764 Atlanta & St. Andrews Bay | 7.20 |
| 1765 Maine Central "Pine Tree" (Green) | 7.20 |

BEV-BEL/LIFE LIKE 100 Ton Hoppers

| | |
|--------------------------------|--------|
| 4760 Peabody | \$3.95 |
| 4761 Reading (Speed Lettering) | 3.95 |
| 4762 Rock Island "The Rock" | 3.95 |
| 4763 Chessie B&O | 3.95 |
| 4764 Reading (RDG) | 3.95 |
| 4765 Norfolk Southern | 4.75 |

BEV-BEL/MDC 50' Express Reefers

| | |
|--------------------------------|--------|
| 4901-4 H.P. Hood & Son #1036 | \$9.60 |
| 4901-5 H.P. Hood & Son #1045 | 9.60 |
| 4902-2 New York Central #5019 | 9.60 |
| 4902-3 New York Central #5056 | 9.60 |
| 4906-4 Boston & Maine (Green) | 9.60 |
| #1953 | 9.60 |
| 4906-5 Boston & Maine (Green) | 9.60 |
| #1962 | 9.60 |
| 4917-2 Boston & Maine (Tuscan) | 9.60 |
| #1611 | 9.60 |
| 4917-3 Boston & Maine (Tuscan) | 9.60 |
| #1612 | 9.60 |
| 6904 White Brothers #883 | 9.60 |
| 6904-1 White Brothers #885 | 9.60 |
| 6906 Bowman Dairy #128 | 9.60 |
| 6906-1 Bowman Dairy #112 | 9.60 |

PLASTRUCT

| Bridge Kits | |
|--------------------------------|-----------|
| 1001 Simple Span | 2/\$10.40 |
| 1002 Truss | 14.50 |
| Tanks | |
| 1005 Electrical Tower/Oil Well | 10.40 |
| 1015 Oil Tank | 9.60 |
| 1016 Water Tower | 11.25 |
| 1017 Propane Tank | 6.40 |
| 1018 Two Vertical Tanks | 15.95 |

DESIGN PRESERVATION MODELS

| | |
|-------------------------|--------|
| 101 Kelly's Saloon | \$5.60 |
| 102 Roberts' Dry Goods | 5.60 |
| 103 Cutting's Scissors | 6.40 |
| 104 B. Moore Catalog | 6.40 |
| 105 Skip's Chicken | 5.60 |
| 106 Laube's Linen | 6.40 |
| 107 Freight Depot | 6.40 |
| 108 Goodfellow's Hall | 6.40 |
| 109 Town House #1 | 5.60 |
| 110 Town House #2 | 5.60 |
| 111 Town House #3 | 5.60 |
| 112 City Cab Co. | 6.40 |
| 113 Carol's Corner Cafe | 6.40 |
| 115 Other Corner Cafe | 6.40 |
| 116 Carr's Parts | 6.40 |
| 201 Schultz's Garage | 5.20 |
| 202 Pam's Pet Shop | 5.20 |
| 203 C. Smith Pkg. Hsc. | 6.40 |
| 204 Walker Bldg. | 6.40 |

Modular Wall System

| (4 Walls/Package) | |
|---------------------------|--------|
| 1. Gr. Entry Door | \$3.20 |
| 2. Loading Door | 3.20 |
| 3. Gr. Window Wall | 3.20 |
| 4. Gr. Blank Wall | 2.40 |
| 5. Ok. Entry Door | 3.20 |
| 6. Ok. Loading Door | 3.20 |
| 7. Archway | 2.40 |
| 8. 2 Story, 4 Window | 3.20 |
| 9. 2 Story, Upper Window | 3.20 |
| 10. 2 Story, Lower Window | 3.20 |
| 11. 2 Story, Blank | 2.40 |
| 12. 1 Story, Window | 3.20 |
| 13. 1 Story, blank | 2.40 |
| 14. Cornice (8 Pieces) | 2.40 |
| 15. Ok. Wall (8 Pieces) | 2.40 |
| 16. Planning Packet | 40 |

| Modular Kits/Flats | |
|----------------------------------|--------|
| 351 (3 in 1) Contains 98 Pieces | \$7.95 |
| 352 (4 in 1) Contains 141 Pieces | 11.95 |
| 353 (4 in 1) Contains 172 Pieces | 15.95 |
| 354 Fedups Freight | 19.95 |
| 355 Tera Surplus Window Whse | 19.95 |

LIFE LIKE

| Proto 2000 Series | |
|--|-------------|
| • ALCO FA-2 Powered | \$54.95 ea. |
| Missouri Pacific #352, #353; Pennsylvania #9620, #9623; Baltimore & Ohio #837, #837A; Spokane, Portland & Seattle #868, #869; Undecorated. | |
| • ALCO FB-2 Dummy | 32.95 ea. |
| Missouri Pacific #352B; Pennsylvania #9620; Baltimore & Ohio #837X; Spokane Portland & Seattle #869; Undecorated. | |
| Steel Center Cupola Caboose | 17.95 ea. |
| L&NE, Conrail, Reading, WM (Speed Lettering), Pitts. & W. Va. Lehigh Valley, Undecorated. | |

| Structures | |
|-----------------------|---------|
| 1342 Mainline Station | \$14.95 |

A-LINE

Athearn Repower Kits With Motors And Flywheels

| | |
|-----------------------------------|---------|
| 70321 Athearn (Except SW1500) | \$24.50 |
| 80321 Athearn SW 1500 | 25.60 |
| 90321 Athearn GP 38, GP 40, GP 50 | 24.50 |

Weights

| | |
|---------------------|------|
| 13000 1/2x1/2x3/16 | 2.80 |
| 13001 1/2x3/4x5/32 | 2.80 |
| 13002 1/2x3/4x1/4 | 2.80 |
| 13010 Moldable Lead | 1.70 |
| 13200 86" Flat | 3.95 |

Details

| | |
|-------------------------------|------|
| 29000 Freight Car Stirrup "A" | 2.25 |
| 29001 Freight Car Stirrup "B" | 2.25 |
| 29002 Freight Car Stirrup "C" | 2.25 |
| 29100 Grab Irons | 2.20 |
| 29200 Windshield Wiper | 1.50 |
| 29300 "E" Unit Sideframe Set | 6.30 |

CITY CLASSICS

| | |
|--------------------------------|---------|
| 101 Grant St. (Iron Front) | \$11.60 |
| 102 Penn Ave. (Tile Front) | 11.60 |
| 103 Smalltown Street Warehouse | 15.25 |
| 104 Extra Stories for Kit 103 | 9.40 |

OLD PULLMAN

| Trucks | |
|---|--------|
| (Sprung Delrin Sidelframes, Brass Wheels) | |
| 40001 Bettendorf | \$4.20 |
| 40011 Andrews | 4.20 |
| 40021 Timken Roller - 33" | 4.20 |
| 40031 Timken Roller - 36" | 4.20 |

SHINOHARA Codes 70, 100 Track Nickel Silver Track Turnouts

| Nickel Silver Track Turnouts | | |
|------------------------------|---------|----------|
| Description | Code 70 | Code 100 |
| #4 | \$ 9.60 | \$ 9.60 |
| #5 | — | 10.40 |
| #6 | 10.00 | 10.40 |
| #8 | 11.40 | 11.60 |
| #6 Curved | 19.20 | 15.20 |
| #8 Curved | 19.20 | 19.20 |
| #4 Wye | 10.00 | 10.40 |
| #6 Wye | — | 11.60 |
| #6 3 Way | 21.60 | 21.00 |
| #6 Single XOver | — | 19.20 |
| Left or Right | — | 30.60 |
| #4 Double XOver | — | 33.00 |
| #6 Double XOver | 33.00 | 33.00 |
| #4 Double Slip | — | 27.40 |
| #6 Double Slip | 28.00 | 28.00 |
| Flex Track | | |
| 10 Pieces | 41.60 | 48.00 |
| Crossings | | |
| 30°, 45°, 60°, 90° | 10.20 | 10.20 |
| 9° Degree L or R | — | 14.40 |
| Rail Joiners | | |
| 50 Metal | 5.00 | 5.00 |
| 12 Metal | 1.40 | 1.40 |
| 12 Insulated | 1.20 | 1.20 |
| Spikes | | |
| 10 Grams | 2.00 | 1.60 |

Minimum Order: \$20 Plus Postage, \$30 Credit Card. No Extra Charge for Credit Card Use. NJ Residents must add 7% Sales Tax.

Your Choice Roadnames. No Substitutions. (Alternate Choices Appreciated) Out of Stock items refunded. Not responsible for Typographical Errors. Sale Price valid until 10th day of cover date. Prices subject to change without notice. Sorry, we do not have a catalog.

Postage: Continental US: \$3.50. We use UPS - Street address required. Alaska/Hawaii, AP0, FP0, Canada, P.O. Boxes: \$7. No Foreign Orders.

Payment: Money Order, Personal Check (We reserve right to hold order until check clears) VISA, MC, Discover Card must accompany order. No C.O.D.

• New Items expected by cover date, availability subject to manufacturer's release.

HO SCALE

CON COR

| | |
|--|-----------|
| • SD-24 | \$55.95 |
| C&NW (Green/Yellow) #6224. | |
| #6228: Pennsylvania #7625 | |
| • GP-38 (Single Headlight) | 55.95 |
| CP (Bright Red) #3022, #3031; B&O | |
| (1960 Scheme) #3802, #3837; MP | |
| #2002, #2004; PRR #2312, #2341; | |
| Wabash #540, #543; Undec. | |
| GP38 Single Headlight | 55.95 |
| S00 #4405, S00 #4407 | |
| GP40 Single Headlight | 55.95 |
| Cotton Belt #7601, #7606; Rio | |
| Grande #3087, #3064; BN "White | |
| Face" #3080, #3075 | |
| • GP-40 (Single Headlight) | 59.95 |
| Wisconsin Central #4004, #4006. | |
| 100 Ton 12 & 15 Panel Car Hoppers | |
| Norfolk & Western | |
| (12 Diff. No's) | 54.95 |
| Sold As Set of 12 Only | |
| • Chicago & Northwestern (Green | |
| W/Yellow Ends) | 62.95 |
| Sold in Set of 12. All With | |
| Different Numbers. | |
| 60' Greenville Box Cars W/10' Door Set | |
| Pennsylvania | 80.95 |
| Conrail | 80.95 |
| • Union Pacific | 80.95 |
| Santa Fe | 80.95 |
| Each set contains 12 Different | |
| Numbers of Same Roadname in Two | |
| Different Lettering Styles | |
| Sold As Set of 12 Only | |
| 54' Flat With Trailer | 7.95 ea. |
| Florida East Coast, Balt. & Ohio, | |
| Chicago & Northwestern, Rio Grande | |
| 54' Mill Gondola | 6.40 ea. |
| Alaska, Wisconsin Central, Montana | |
| Rail Link, Cent. of New Jersey (Green) | |
| Old Time Box Cars | 6.40 |
| N&W, Santa Fe, Seaboard, Southern | |
| Pacific, NC&St. Louis, Florida East | |
| Coast | |
| Vintage Passenger Cars | 31.95 ea. |
| Pennsylvania, Union Pacific, Rio | |
| Grande Western, Santa Fe, Norfolk | |
| & Western, Southern Pacific | |
| Set includes baggage, combine, | |
| two coaches. | |

THREE PACKS

| | |
|-----------------------------------|-------------|
| 47' Covered Hoppers | \$19.25 ea. |
| SP, Santa Fe, Conrail, B&O. | |
| One Three Pack Available for Each | |
| Roadname. All With Different | |
| Numbers. | |
| 40' Box Cars | 14.40 ea. |
| B&O, Conrail, UP, D&RGW. | |
| One Three Pack Available for Each | |
| Roadname. All With Different | |
| Numbers. | |

Structures

| | |
|---------------------------------|--------|
| 9001 Smalltown Station | \$8.75 |
| 9002 Trackside Bldgs | 8.75 |
| 9003 Farm House | 8.75 |
| 9015 Barn & Yard Bldgs | 8.75 |
| 9022 Freight Station | 8.75 |
| 9028 Two Stall Enginehouse | 8.75 |
| 9029 Sandhouse/Diesel Facility | 8.75 |
| 9034 Suburban House | 8.75 |
| 9036 Rural School House | 8.75 |
| 9038 Weekly Herald | 8.75 |
| Cambria City Iron Works Complex | |
| 9054 Cambria Iron Works | 23.95 |
| 9055 Boiler House | 10.40 |
| 9056 Storage Tanks | 9.60 |
| 9057 Accessory Details | 7.95 |

MODEL POWER

| | |
|--------------------------|---------|
| Structures | |
| 584 Sinatra's House | \$10.95 |
| 585 Mr. Ridger's House | 10.95 |
| 586 Haunted House | 10.95 |
| 587 Grandma Moses' House | 10.95 |
| 588 Kennedy's House | 10.95 |
| 589 Simpson's House | 10.95 |
| 590 Jordon's House | 10.95 |

RAIL POWER

PRODUCTS

| | |
|-----------------------------------|---------|
| GE B40-8 (Dummy) | \$21.95 |
| Includes Undec. Shell, Handrails, | |
| Dummy Trucks, Frame. | |
| Diesel Shells: | |
| CF-7 (Round Cab) | 12.60 |
| CF-7 (Angle Cab) | 12.60 |
| C32-8 | 10.75 |
| C30-7 | 12.60 |
| B23-7 | 12.60 |
| SD60 | 12.60 |
| 8-40-8 | 12.60 |
| SD45 | 12.60 |
| • GP-35 Dynamic | 12.60 |
| • GP-35 Non-Dynamic | 12.60 |

KADEE®

Couplers

| | |
|----------|--------|
| #4 2/Pkg | \$2.25 |
| #5 2 Pkg | 2.25 |

SPECIAL

10 Packs #5 Couplers

| | |
|----------------------------------|----------|
| (20 Pair) | \$19.50 |
| #6, 7, 8, 9, 16 | 2.30 |
| #26, 27, 28 | 2.60 |
| #13 Test Kit W/Uncoupler | 10.95 |
| #36, 37, 38 | 2.65 ea. |
| #450 Stewart "F" Unit Conversion | |
| Coupler | 3.95 |

Miscellaneous

| | |
|-----------------------------|---------|
| 205 Height Gauge | 2.75 |
| 208 Washers .015 48 pcs | 1.60 |
| 209 Washers .010 48 pcs | 1.60 |
| 231 Greas-em | 1.30 |
| 235 Spring Pic | 1.25 |
| 236 Speedi-Driver Cleaner | 6.40 |
| 246 Coupler Tap & Drill Set | 4.75 |
| 256 Delrin Screws #2-56 | 12/1.20 |

Uncouplers

| | |
|------------------------------|------|
| 307 Magne-Electric Uncoupler | 5.95 |
| 308 Super Magnet Uncoupler | 2.75 |
| 312 Non-Delayed Uncoupler | 3.25 |
| 321 Delayed Uncoupler | 2.95 |

Trucks

| | |
|--------------------------|------------|
| 500 Bettendorf Trucks | 1 Pr. 3.95 |
| 501 Arch Bar Trucks | 1 Pr. 3.95 |
| 502 Bettendorf W/Coupler | 1 Pr. 5.60 |
| 503 Arch Bar W/Coupler | 1 Pr. 5.60 |
| 509 Andrews Trucks | 1 Pr. 3.95 |
| 510 Andrews W/Coupler | 1 Pr. 5.60 |
| 520 33" Wheel Sets | 4.95 |
| 521 36" Wheelsets | 6.25 |

CALIFORNIA

MODELS

| | |
|-------------------------------|---------|
| 1 Furniture Factory | \$12.20 |
| 4 Buckhorn Mine Ore Plant | 16.20 |
| 5 Black Bart Mine | 6.95 |
| 6 Red Lane Hillside Mine | 8.60 |
| 7 Warehouse | 12.25 |
| 9 Enginehouse-3 Stall | 13.60 |
| 16 Industrial Office | 5.95 |
| 22 Amer. Chemical | 21.60 |
| 23 Amer. Chemical-Annex | 24.60 |
| 24 Wyoming Coal Mine | 20.25 |
| 80 Modern Ray Tower | 10.75 |
| 81 Grand Junction Box Factory | 8.75 |
| 542 Rail-Truck Terminal | 10.25 |
| 563 Complete Lumber Yard | 24.60 |
| Craftsman Type Kits | |

SMALLTOWN USA

| | |
|------------------------------|--------|
| 6006 Hardware Store | \$5.60 |
| 6007 Cab Co | 5.60 |
| 6008 Freight Office | 5.60 |
| 6009 Roy's Fix It Shop | 5.60 |
| 6010 Sally's Antiques | 5.60 |
| 6011 John's Place | 5.60 |
| 6012 Helen's Country Kitchen | 5.60 |
| 6013 Family Shoe Store | 5.60 |
| 6014 Old Indian Tobacco | 5.60 |
| 6015 Furniture Showroom | 7.95 |
| 6016 Florist Shop | 5.60 |
| 6017 Drug Store | 5.60 |
| 6018 Parcel Delivery Service | 5.60 |
| 6019 Cycle Repair | 5.60 |
| 6020 Appliance Mart | 7.60 |
| 7000 Sidewalk (240 HO Scale | |
| Feet) | 2.25 |

PLANNING
AHEAD?

We are accepting reservations on the following:

BEV-BEL/LIFE LIKE
FA/FB Locomotive Sets

| | |
|------------------------------------|----------|
| Canadian National (Pass. | |
| Scheme) | \$135.95 |
| Canadian Pacific (Tuscan W/Block | |
| Letters) | 135.95 |
| VIA | 135.95 |
| Sets include One Each FA2 Powered, | |
| FB-2 Dummy, FA-2 Dummy, All with | |
| Diff. Numbers. | |

WALTHERS

| | |
|-----------------------------------|---------|
| 36' Gulf Tank Car 3 Pack | \$23.95 |
| Set includes Three Gulf Tank Cars | |
| in Three Different paint Schemes | |

CON COR

| | |
|------------------------------------|---------|
| GP-40 | \$55.95 |
| SP (Flying Logo) #7130, #7129. | |
| GP-38 | 55.95 |
| Conrail (Blue W/White Side Sill) | |
| #7752, #7783. | |
| GP-38 Hi-Nose | 59.95 |
| Norfolk Southern #2743, #2762; | |
| Norfolk & Western (Black) #4112, | |
| #4155: Pennsylvania (Green) #2381, | |
| #2385. | |

Orders for the above are taken on a Reservation Status and will be shipped when released by the manufacturer. Items are expected within the next few months, but late deliveries are not uncommon. Include double postage if you wish us to ship available items in advance of those that have been reserved.

If you've missed out on past items due to their limited nature, this would be an excellent way to plan for your future needs. Reservations can be cancelled at any time with a full refund. Credit Card orders will not be processed until order is ready to be shipped.

PIKESTUFF

| | |
|---------------------------------|--------|
| 4 Prefab Building | \$9.60 |
| 5 Small Yard Office | 3.20 |
| 6 Handcar Shed | 2.40 |
| 7 Modern Warehouse | 13.60 |
| 8 Modern Enginehouse | 11.95 |
| 9 Machine Shop | 11.95 |
| 10 Distribution Center | 9.60 |
| 11 Add-On Office | 4.40 |
| 15 Shops & Office | 14.95 |
| 16 Yard Office | 5.60 |
| 17 Loading Ramps | 2.60 |
| 18 Diamond Tool | 8.75 |
| 19 Fire Station | 7.95 |
| 20 Tri Star Industries | 10.40 |
| 5000 Mod. Shortline Enginehouse | 6.60 |
| 5001 Motor Freight Terminal | 7.95 |
| 5002 Modern 2 Story Office | 6.75 |
| 5003 K.B. Tire Shack | 5.20 |
| 5004 Truckee/RR Motel | 9.95 |
| 5005 Multi Purpose Bldg | 7.40 |
| • 5006 General Contractor Bldg | 7.95 |

FIVE PEAKS

| | |
|----------------------------|---------|
| Structures | |
| 501 Sawmill | \$63.95 |
| 502 Boiler House | 22.40 |
| 503 Sawdust Bunker | 19.95 |
| 506 Engine House | 25.60 |
| 507 Water Tank | 19.95 |
| (Craftsman-Type Wood Kits) | |

PROTO POWER

WEST

| | |
|-------------------------------------|---------|
| Can Motor Equipped And | |
| Weighted Chassis, Less Shell | |
| GP-9, F-7, GP-35 | \$56.95 |
| SW1500, GP-38-2, GP-50/GP-40, UB, | |
| 8-40B | 57.95 |
| GP-30, UC, SD-45, F-45, FP-45, SD-9 | |
| | 55.95 |
| SD-40-2 | 60.95 |
| SD-40T-2, F-40PH | 61.95 |
| SD-60 | 62.95 |

HO SCALE

RAILCRAFT

Rail Weathering Solution (3 Oz.) .395

Nickel Silver

| | |
|-----------------------|---------|
| Flextrack — 6' 3' pcs | |
| Code 100 | \$18.75 |
| Code 83 | 17.60 |
| Code 70 | 17.60 |
| Code 55 | 17.60 |

Weathered

| | |
|-------------------------|-------|
| Flex Track — 6' 3' pcs. | |
| Code 100 | 19.60 |
| Code 83 | 18.40 |
| Code 70 | 18.40 |
| Code 55 | 18.40 |

Railjoiners

| | |
|----------|------|
| Code 100 | 2.00 |
| Code 83 | 3.75 |
| Code 70 | 3.60 |
| Code 55 | 3.50 |

Spikes

| | |
|---------------------------------|------------|
| Small | 1,000/4.40 |
| Medium | 800/4.95 |
| Large | 500/4.50 |
| Track Gauge | 2.40 ea. |
| Specify Code 100, 83, 70 or 55. | |

Rail

| | |
|--------------------------------|-------|
| Weathered (99' Per Bundle) | |
| Code 100 | 31.60 |
| Code 83 | 26.75 |
| Code 70 | 24.95 |
| Code 55 | 21.60 |
| Non-Weathered (99' Per Bundle) | |
| Code 100 | 28.95 |
| Code 83 | 24.75 |
| Code 70 | 24.95 |
| Code 55 | 19.95 |

WALTHERS

CODE 83 TRACK

| | |
|-----------------------------|------------|
| Turnouts | |
| #5 L.R. | \$9.95 ea. |
| #6 L.R. | 9.95 ea. |
| #6 1/2 Curved Turnout, L.R. | 17.60 ea. |
| #8 L.R. | 10.95 ea. |
| #7 Curved L.R. | 17.50 ea. |
| #7 1/2 Curved Turnout, L.R. | 17.60 ea. |
| #8 Curved, L.R. | 17.50 ea. |
| #6 Double Slip | 29.95 |
| #8 Double Slip | 33.50 |
| 3 Way Turnout | 19.95 |
| #6 Double Crossover | 29.95 |
| Crossings | 9.95 ea. |
| Specify 30°, 45°, 60°, 90° | |
| Wye's | 9.95 |
| Specify 2 1/2, 3, 4 | |
| Flextrack | |
| 10 pieces | 42.95 |

Railjoiners, Metal

| | |
|---------------------|------|
| 50 pieces | 4.75 |
| Transition Track | |
| Code 70 to Code 83 | 3.60 |
| Code 83 to Code 100 | 3.60 |

CENTRAL VALLEY

| | |
|------------------------------|--------|
| 1000 40' Floor & Frame | \$3.75 |
| 1001 Stock Car Kit | 7.40 |
| 1601 Fencing | 3.75 |
| 1602 Ladders & Stairs | 3.75 |
| 1902 150' Pratt Truss Bridge | 25.50 |
| 19025 Box Girders | 7.40 |
| 190210 Bridge Ties | 7.40 |
| 1903 72' Single Plate Girder | |
| Bridge | 8.95 |
| 1904 72' Double Plate Girder | |
| Bridge | 13.50 |

ENGLISH'S MODEL

| | |
|-------------------------------|---------|
| Dockside Loco | \$33.95 |
| Undec. PRR, UP, B&O, ATSF | |
| Powered Mechanisms For | |
| Bachmann Locos: | |
| 200 PRR 4-6-2 Pacific | 51.95 |
| 201 2-8-0 Consolidation | 39.95 |
| 202 N&W 4-8-4 Class "J" | 55.95 |
| 204 GS-4 Daylight | 37.50 |
| 205 4-8-4 Niagara | 37.50 |
| 206 Northern & Overland 4-8-4 | 37.50 |

MRPO Super Quality

| | |
|---------------|---------|
| CORK | |
| 25 3' Lengths | \$18.50 |

ATLAS

NICKEL SILVER TRACK

| Stock No. | Description | Price |
|-------------------------|---------------|--------------|
| 168 3' Flex | (Min. 10 pcs) | \$1.75 ea. |
| 821 9" Straight | | 6 for 2.60 |
| 822 6" Straight | | 4 for 1.40 |
| 823 3" Straight | | 4 for 1.40 |
| 831 15" Curve | | 6 for 2.60 |
| 833 18" Curve | | 6 for 2.60 |
| 834 1/2-18" Curve | | 4 for 1.40 |
| 835 1/3-18" Curve | | 4 for 1.40 |
| 836 22" Curve | | 6 for 2.60 |
| 840 Straight Terminal | | 1.70 ea. |
| 843 Bumpers | | 2 for \$1.40 |
| 844 Rerailer | | 3 for 2.80 |
| 845 18" Curved Terminal | | 1.70 ea. |
| 847 Track Assortment | | 1.70 |
| 849 Uncoupler | | 1.70 |

CODE 83 NICKEL SILVER

| | |
|------------------------------|------------|
| 500 Superflex 83 (3' Length) | |
| Min. 10 pieces | \$2.75 ea. |
| 550 Railjoiners 83 | 1.25 |
| 551 Code 83-100 Transition | |
| Joiners | 12/1.40 |

MISCELLANEOUS

| | |
|------------------------------|-----------------|
| 65 Under Layout Switch Mach. | |
| \$3.85 ea. / 10 for \$33.95 | |
| 400 Snap Saw | \$1.40 |
| 2540 Track Nails | 1.75 |
| 170 Rail Joiners | 48 for 1.05 |
| 842 Terminal Joiners | 1 pair for 1.10 |
| 52 Remote LH Switch Mach | 3.85 |
| 53 Remote RH Switch Mach | 3.85 |
| 55 Insulated Joiners | 24 for 60c |
| 56 Switch Control Box | 1.75 |
| 62 Manual LH Switch Mach | 1.05 |
| 63 Manual RH Switch Mach | 1.05 |
| 200 Snap Relay | 4.75 |
| 205 Connector | 3.70 |
| 210 Twin Controller | 3.70 |
| 215 Selector | 3.70 |
| 220 Controller | 3.70 |
| 301 Turntable Motor | 20.95 |
| 303 Turntable | 11.95 |

MARK III TURNOUTS

| | |
|-------------------|--------|
| 280 #4 Wye | \$5.75 |
| 281 #4 Left Hand | 5.75 |
| 282 #4 Right Hand | 5.75 |
| 283 #6 Left Hand | 5.75 |
| 284 #6 Right Hand | 5.75 |

CROSSINGS

| | |
|-----------|--------|
| 12 Degree | \$3.85 |
| 19 Degree | 3.50 |
| 25 Degree | 3.50 |
| 30 Degree | 3.50 |
| 45 Degree | 3.50 |
| 60 Degree | 3.50 |
| 90 Degree | 3.50 |

BRIDGES

| | |
|------------------------|-------------------|
| 81 3' Bridge Piers | \$1.75 |
| 82 Pier Girders | 4 In Package 1.40 |
| 883 Warren Truss | 2.80 |
| 884 Deck Truss | 2.80 |
| 885 Plate Girder | 2.80 |
| 886 Pony Bridge | 7.20 |
| 887 Curved Chord Truss | 11.50 |

SHEEPSCOT

| | |
|------------------------------|---------|
| 1010 Freight & Baggage Bldg. | \$23.95 |
| 1020 Station W/Bay Window | 26.95 |
| 1030 Signal Tower W/Crossing | |
| Shanty | 23.95 |
| 1040 150T. Coal Tower | 59.95 |
| 1050 Phillips Beach Station | 37.95 |
| 1063 Derrick W/Clam Bucket | 28.75 |
| 1070 The Lime Company | 171.95 |
| Craftsman Type Wood Kits | |

TICHY

| | |
|-----------------------------|---------|
| 4010 120 Ton Crane | \$22.75 |
| 4012 Hand Car/Push Car | 6/7.60 |
| 4012 Wood Ore Car | 2/11.50 |
| 4020 USRA 10,000 Gal. Tank | 11.50 |
| 4021 50 Ton Steel Flat Car | 7.25 |
| 4022 Boom Car | 11.50 |
| 4023 40' Wheel Flat Car | 11.50 |
| 4024 40' PFE Wood Reefer | 11.50 |
| 4025 USRA 10,000 Gal. Large | |
| Dome Tank Car | 11.50 |
| 4026 USRA Single Sheathed | |
| Box Car | 11.50 |
| 4027 USRA 2 Bay Hopper | 11.50 |
| 4029 USRA Panel Side Hopper | |
| (Undec.) | 11.50 |
| 7010 400 T Concrete Coal | |
| Tower | 107.95 |
| 8004 Coal Shed | 7.60 |
| 8005 Sand House | 7.60 |

MODEL DIE
CASTING

| | |
|-----------------------------------|------------|
| • 50' Tank Train-GATX | \$7.60 ea. |
| 3 Diff. Nos. | 22.50 |
| 6 Diff. Nos. | 42.95 |
| 12 Diff. Nos. | 81.95 |
| UTLX Shorty Tank Cars | 5.80 ea. |
| 6 Diff. No's | 32.75 |
| 12 Diff. No's | 60.96 |
| Bessemer & Lk. Erie 3 Bay Hoppers | |
| 6 Diff. Nos. | 23.75 |
| 6 Diff. Nos. W/Coal Loads | 31.75 |
| 12 Diff. Nos. | 43.95 |
| 12 Diff. Nos. W/Coal Loads | 57.95 |
| Norfolk & Western 40' Gondolas | 4.20 ea. |
| 6 Diff. Nos. | 23.75 |
| 12 Diff. Nos. | 43.95 |

ACCURAIL

| | |
|--|----------|
| 40' Steel Double Door Box Cars | \$6.40 |
| Undec., Santa Fe, B&O, BN, CN, C&W, | |
| Burlington, GN (Red), NYC, PRR, UP, | |
| Wabash, Cotton Belt, CP, SP, Seaboard, | |
| Frisco, Milw. MP. | |
| 40' AAR Single Door Box Cars | 6.40 ea. |
| C&O, NP, PRR, Santa Fe, UP, Undec. | |
| NYC (Jade), Rio Grande, CP, SP, | |
| C&NW, MKT, GTW, Southern, CN, | |
| GN. | |

MICRO
ENGINEERING

| | |
|-------------------------------|--------|
| Structures: | |
| 4 Murphy Manufacturing | \$8.75 |
| 5 Transworld Truck Terminal | 10.40 |
| 6 Petrof Plumbing Supply | 10.40 |
| 600 Hay & Grain Store | 6.95 |
| 601 Krukow Hardware | 6.95 |
| 602 Zang's Saloon | 6.95 |
| 603 H-K-Z False Fronts | 6.95 |
| 604 Croger's Grocery | 7.95 |
| Bridges: | |
| 501 50' Deck Girder | 4.75 |
| 502 30' Deck Girder | 4.35 |
| 507 50' Deck Girder Ballasted | 4.75 |
| 508 30' Deck Girder Ballasted | 4.35 |
| City Viaducts: | |
| 509 90' Single Track | 12.75 |
| 510 90' Double Track | 20.75 |
| 511 150' Single Track | 20.75 |
| 512 150' Double Track | 31.95 |
| Tall Viaducts: | |
| 169 Steel Viaduct Tower | 5.20 |
| 514 150' Single Track | 23.95 |

KORBER MODELS

| | |
|-----------------------------|---------|
| 104 Three Stall Enginehouse | \$47.95 |
| 105 Additional Stall | 13.60 |
| 107 General Light & Power | 71.95 |
| 108 Global Transfer | 47.95 |
| Craftsman Type Kits | |

PROMOTEX

| | |
|------------------------------------|-------|
| HO Trucks by Herpa | |
| 6026 Northern Cartage Freightliner | |
| w/Van | 8.75 |
| 6027 Canada Saweway Freightliner | |
| w/Van | 9.25 |
| 6028 Preston 2 Axle Tractor | |
| w/Double | 8.75 |
| 6029 CP Exp. Peterbilt w/Van | 8.75 |
| 6030 CP Exp. Freightliner | |
| w/Double | 8.75 |
| 6031 CP Exp. 40' Van | 4.95 |
| 6032 Choice Reefer Peterbilt | |
| w/Reefer | 9.25 |
| 6034 Texaco Peterbilt w/Tank | 9.75 |
| 6035 BN American Freightliner | |
| w/Double | 8.75 |
| 6039 Challenge Motor Freight | |
| Peterbilt w/Van | 10.40 |
| 6041 Clipper Ex (40' Trailer) | 6.25 |
| 6042 D&RGW (40' Trailer) | 6.25 |
| 6043 Norfolk & Western | |
| (40' Trailer) | 6.25 |
| 6044 Milwaukee (40' Trailer) | 6.25 |
| 6045 Motorways Freightliner W/Twin | |
| 27' Trailers | 10.40 |
| 6046 Merchants First Motor Line | |
| Peterbilt W/Twin 27' Trailers | 10.40 |
| 6047 CN-GMC Dump Truck | 7.20 |
| 6048 Undecorated GMC Dump | 6.40 |
| 6049 GMC Dump Truck (Orange) | 6.40 |

STEWART

| | |
|-------------------------------------|------------|
| • 55 Ton Fishbelly Hopper | \$7.95 ea. |
| Undec. Data Black | |
| • AS-16 (Kato Powered) | 49.95 |
| Undec., Western Maryland (Speed | |
| Lettering), #175, Western Maryland | |
| (Speed Lettering) #176, PRSL #6000, | |
| PRSL #6013. | |

MODEL POWER

| | |
|--------------------------|--------|
| Structures | |
| 606 Modern House | \$7.95 |
| 607 Three-Way Truckstop | 10.40 |
| 608 Lenny's Claim | 11.95 |
| 609 Two Story House | 8.75 |
| 610 ADM Office & Factory | 14.40 |
| 611 Dual Loco Shed | 14.40 |

CARY LOCOMOTIVE
WORKS

| | |
|--------------------------------------|---------|
| 8 E3, E4, E6A Body for Athearn, AHM, | |
| Hobbytown | \$19.95 |
| 9 E3, E4, E6B Body for Athearn, AHM, | |
| Hobbytown | 19.95 |
| 14 E7A Body for Athearn, AHM, | |
| Hobbytown | 19.95 |
| 15 E7B Body for Athearn, AHM, | |
| Hobbytown | 19.95 |
| 50 SW1500 for Athearn, | |
| Hobbytown | 19.95 |
| 53 H-10-44/H-12-44 Body | 19.95 |

BEV-BEL/LIFE LIKE

| | |
|----------------------------------|------|
| 50' Sgl. Door Box Cars | |
| 4427-3/4 Guilford "Maine Cent." | 5.60 |
| 4461 Evans "DF Loader" | 4.75 |
| 4462 FGE "Solid Gold" | 4.40 |
| 4463 Green Mountain (Green) | 4.40 |
| 4464 Gulf, Mobile & Ohio (Green) | 4.40 |
| 4468 Seaboard "Robert E. Lee" | 4.75 |
| 4469/1 Louisiana Midland | 4.75 |
| 4470/1 Nevada Northern | 4.40 |
| 4471/1 Seaboard "CSX" (Blue) | 4.75 |
| 4473/1 Rock "Route Rock" (White) | 4.75 |
| 4474/1 St. Mary's (White) | 4.75 |
| 4475/1 Green Bay & Western | 7.25 |
| 4476/1 South Branch Valley | 4.75 |
| 4480/1 Canadian National (White) | 4.75 |
| 4483/1 Reading (White) | 4.75 |
| 4486 Florida East Coast (Red) | 4.75 |
| 4487/1 Western Pacific "Feather" | 5.60 |
| 4491/1 Ann Arbor | 5.60 |

Three Dome Tank Car

| | |
|-------------------------|--------|
| 13001 Canadian National | \$4.80 |
|-------------------------|--------|

100T Coal Hoppers

| | |
|------------------------|--------|
| 14001 Reading "RDG" | \$4.75 |
| 14002 Reading | 4.75 |
| 14003 Baltimore & Ohio | 4.75 |
| 14004 Peabody | 4.75 |
| 14005 Norfolk Southern | 4.75 |

MODEL DIE
CASTING

| | |
|---|------------|
| Apache Railway 50' Double Door Box | |
| Cars | \$5.60 ea. |
| 6 Diff. Nos. | 31.95 |
| 12 Diff. Nos. | 59.95 |
| • Burlington Northern 50' Plug Door Box | |
| Cars | 5.60 ea. |
| 6 Diff. Nos. | 31.95 |
| 12 Diff. Nos. | 59.95 |
| 50' "Pickens" Repaint Box Cars | |
| Set of 6 Different Cars, One Each | |
| With Different Reporting Marks- | |
| E&LS, C&NW, B&O Chessie, CSX, | |
| ICG, Atlantic & Western | 35.95 |
| Set of 12 Different Cars, Two Each With | |
| Different Reporting Marks as | |
| Above | 66.95 |

WALTERS -
ARNOLD

| | |
|------------------------------------|--------|
| 36' Single Dome Tank Car | \$7.95 |
| UTLX, Shell, GATX, Humble, Texaco, | |
| Interstate Fuel, Undec. | |

50' Evans Box Cars

| | |
|----------------------------------|--------|
| 10001 Conrail (Oxide Red) | \$4.75 |
| 10002 Penn Central (Green) | 4.75 |
| 10003 West. Pacific "Feather" | 4.75 |
| 10004 Santa Fe "Map" | 4.75 |
| 10005 Baltimore & Ohio (BC Red) | 4.75 |
| 10006 Chessie C&O (Blue) | 4.75 |
| 10007 Rio Grande (Silver/Orange) | 4.75 |
| 10008 Erie Lackawanna (Gray) | 4.75 |
| 10009 New York Central (Green) | 4.75 |
| 10010 Pennsylvania (BC Red) | 4.75 |
| 10011 Reading (C&O Red) | 4.75 |
| 10012 Southern (BC Red) | 4.75 |
| 10013 Southern Pacific | 4.75 |
| 10014 Western Maryland | 4.75 |

F7A Powered Diesels

| | |
|-------------------------------|---------|
| 4060 Amtrak (Silver) | \$21.75 |
| 4061 New Haven (Black/Orange) | 21.75 |
| 4062 New York Central (Light | |
| Stripe) | 21.75 |
| 4063 Santa Fe (Silver/Red) | 21.75 |
| 4064 Burlington "Zephyr" | |
| Silver/Red | 21.75 |
| 15001 Reading | 21.75 |
| 15002 Rio Grande "Zephyr" | 21.75 |
| 15003 Western Maryland | |
| "Radio Equipped" | 21.75 |
| 15004 Western Pacific | 21.75 |
| 15005 Canadian Pacific | 27.95 |

40' Box Cars

| | |
|-----------------------------------|------|
| 4495 Lehigh Valley "Flag" (White) | 6.40 |
| 4496 Lehigh Valley "Map" (White) | 5.60 |
| 4497 Reading Lines (White) | 5.60 |

MICRO TRAINS®

| | |
|--------------------------------|--------|
| Trucks | |
| 1000 Bettendorf | \$2.95 |
| 1001 Bettendorf W/O Cplr | 1.85 |
| 1002 Bettendorf (Ext. Bolster) | 3.15 |
| 1003 Bettendorf (Med. Bolster) | 2.85 |
| 1017 4 Wheel Passenger | 3.90 |
| 1018 6 Wheel Passenger | 4.50 |
| 1030 Roller Bearing | 2.95 |
| 1033 Roller Bearing (Extended) | 3.10 |

Uncouplers

| | |
|-----------------------------|------|
| 1309 Electric W/Atlas Track | 7.95 |
| 1310 Magnet W/O Track | 3.45 |
| 1311 Magnet-Mounted | 2.95 |

MLR

| | |
|----------------------------------|--------|
| 5001 Track Tool | \$2.40 |
| 5002 Parallel Tool | 2.40 |
| 5004 Solder Tool | 2.40 |
| 5009 Ballast Spreader | 7.20 |
| 5011 Track Tool Set (One Each of | |
| Above) | 13.50 |
| 5015 Flex Track Align Tool | 3.40 |

PLANNING
AHEAD

CON COR

| | |
|---|---------|
| 60' Box Car 12 Pack | |
| Conrail | \$84.95 |
| Union Pacific | 84.95 |
| Set includes 12 cars with same | |
| roadname in 2 different lettering styles. | |
| Sold in Set Only. | |

| | |
|-------------------------------|----------|
| Bi-Level Passenger Car Sets | |
| Milwaukee | \$26.40 |
| Santa Fe | 26.40 |
| Amtrak (Phase II) | 26.40 |
| Chicago & Northwestern | 26.40 |
| Set Contains One Cab Unit | |
| And Two Coaches. | |
| Extra Coaches (Give Roadname) | 8.75 ea. |

WALTHERS

| | |
|--------------------------------|---------|
| CORNERSTONE SERIES | |
| Structures | |
| • 3200 Interstate Fuel & Oil | \$17.60 |
| 3202 Union City Roundhouse | 17.60 |
| • 3203 120' Manual Turntable | 17.60 |
| 3204 2 Stall Enginehouse | 8.75 |
| • 3207 Hartland Grain Elevator | 15.95 |

DELAWARE VALLEY

| | |
|-----------------------------------|--------|
| 50' Airslide Cov. Hopper | \$6.40 |
| ICG (Orange), GTW (Blue), Western | |
| Pacific, Santa Fe (Tuscan). | |

MIDWEST

| | |
|----------------------------|---------|
| "N" Cork Roadbed (25 Pair) | \$12.95 |
|----------------------------|---------|

KALMBACH

| | |
|-------------------------------------|--------|
| N Scale MR Track Plans | \$3.95 |
| Beginner's Guide to N Scale | 9.60 |
| Modeling the Clinchfield in N Scale | 7.95 |
| Building the BN in N Scale | 7.20 |

DESIGN
PRESERVATION
MODELS

| | |
|---------------------------|--------|
| 501 Bruce's Bakery | \$5.60 |
| 502 Hayes Hardware | 5.60 |
| 503 Otto's Parts | 5.60 |
| 504 Char's Soda Shoppe | 5.60 |
| 505 Goodnight Mattress | 7.95 |
| 506 Gripp's Luggage Mfg. | 7.95 |
| 507 Corner Apothecary | 5.60 |
| 508 Crestone Credit Union | 5.60 |

ATLAS

NICKEL SILVER TRACK

| | |
|---------------------------------|------------|
| 2500 "N" SuperFlex (30" Length) | |
| Min. 10 Pieces | \$1.45 ea. |
| 2501 5" Straight | 6 for 1.30 |
| 2509 Straight Track Assort. | 1.50 |
| 2510 9/4" Curve | 6 for 1.30 |
| 2511 1/2 - 9/4" Curve | 6 for 1.05 |
| 2520 11" Curve | 6 for 1.30 |
| 2521 1/2 - 11" Curve | 6 for 1.05 |
| 2526 19" Curve | 6 for 1.30 |
| 2532 ReAligner | 3 for 1.05 |
| 2536 Bumpers | 2 for 1.05 |
| CROSSINGS | |
| 2564 15° | \$3.30 |
| 2565 20° | 3.30 |
| 2566 30° | 3.30 |
| 2567 45° | 3.30 |
| 2568 60° | 3.30 |
| 2569 90° | 3.30 |

TURNOUTS

| | |
|------------------------|------------|
| 2580-1 #4 Remote-Left | \$8.75 |
| 2581-1 #4 Remote-Right | 8.75 |
| 2582-1 #4 Manual-Left | 5.25 |
| 2583-1 #4 Manual-Right | 5.25 |
| 2584 #6 Remote-Left | 12.50 |
| 2585 #6 Remote-Right | 12.50 |
| BRIDGES & ACCESSORIES | |
| 2546 Warren Truss | \$2.10 |
| 2547 Deck Truss | 2.10 |
| 2548 Plate Girder | 2.10 |
| 2826 Viaduct Kit | 2.30 |
| 2541 Pier Set | 3.95 |
| 2542 Pier Girder | 1.40 |
| 2543 Bridge Pier | 1.40 |
| 2801 Telephone Poles | 1.05 |
| MISCELLANEOUS | |
| 2535 Rail Joiners | \$1.05 |
| 2538 Insulated Joiners | .50 |
| 2539 Terminal Joiners | 1 pr. 1.20 |
| 2540 Track Nails | 1.75 |

Rolling Stock

| | |
|---------------------------------------|------------|
| 90 Ton Hopper Cars | \$5.40 ea. |
| Chessie (B&O), Chessie (C&O), Chessie | |
| (WM) | |
| THREE PACK | |
| 40' Plugdoor Santa Fe | 16.75 |

MODEL POWER

| | |
|----------------------------|---------|
| 1523 Saw Mill | \$ 6.95 |
| 1524 Malden Station | 6.95 |
| 1526 Victorian House | 12.60 |
| 1550 Twin Diesel Loco Shed | 11.60 |
| 1544 Marty Meat Shop | 6.95 |
| 1545 General Electric | 7.75 |
| 1546 Holland Iron & Steel | 6.95 |

CON COR

| | |
|--------------------------------------|----------|
| 50' Flat W/Old Time Trailer | \$6.45 |
| Florida East Coast, Balt & Ohio, | |
| Chicago & Northwestern, Rio Grande | |
| 40' Covered Hoppers | 4.80 |
| Santa Fe, Chicago & Northwestern, | |
| Chessie, Burlington Northern, | |
| Pillsbury, FMC Chemicals. | |
| 40' Double Door Box Cars | 4.95 ea. |
| GN (Red), NP (BC Red), CV (Tuscan) | |
| Frisco (BC Red), IC (Orange) N&W | |
| (Tuscan), Undec. | |
| • 50' Flat W/40' Trailer | 6.25 ea. |
| Trailer Train, SP, Northern Pacific, | |
| Seaboard Coast Line. | |
| 60' Center Beam Flat | 6.25 ea. |
| Trailer Train, Canadian Pacific, | |
| Union Pacific, Southern, Chessie, | |
| Milwaukee, Centex. | |
| 52' Covered Hoppers 3 Pack | 19.25 |
| Iowa Co-op (One each: Albert City, | |
| Klemme, Farnhamville) | |
| 50' Flat Car | 4.75 ea. |
| Santa Fe, UP, PRR, SOO. | |

Structures

| | |
|-----------------------------|---------|
| 601 Two Brothers Restaurant | \$10.40 |
| 602 Two Retail Stores | 10.40 |
| 603 Corner Bank | 10.40 |
| 604 Woolworth & Ice Cream | |
| Shop | 10.40 |
| 605 Firehouse | 10.40 |
| 609 Lyric Theater | 10.40 |
| 610 Troch Coal Yard | 10.40 |
| 611 Corner Drug Store | 10.40 |
| 650 Two Stall Enginehouse | 10.40 |
| 654 Superior Bakery | 10.40 |
| 655 Weekly Herald | 10.40 |

CLEARANCE
SALE

CON COR

| | |
|-------------------------------------|--|
| WIDE VISION CABOOSES | |
| Santa Fe, Conrail, BN, SOO, Trailer | |
| Train, N&W (Blue), SP, Family Lines | |
| (Seaboard), CSX. | |

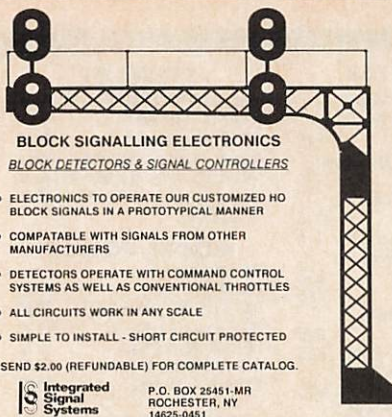
\$3.95 ea.

| | |
|-------------------------------------|--|
| BAYWINDOW CABOOSES | |
| Santa Fe, UP, SP, PRR, Norfolk | |
| Southern, Maint. of Way (Gray), BN. | |

\$3.25 ea.

BACHMANN/
SPECTRUM

| | |
|---------------------|---------|
| Sears Catalog House | \$11.25 |
|---------------------|---------|



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More Bull Session from page 181

into Göschenen almost on top of the north portal of the St. Gotthard Tunnel.

Our trip from Zurich to Nuremberg included a combination of Swiss and German trains. All the equipment we rode was in excellent shape and looked amazingly clean inside and out. The ride was smooth and generally fast behind heavy electric or diesel motive power. All sorts of interesting structures and stations flew by the window, including many that looked like they were right out of the Faller, Kibri, Pola, and Vollmer catalogs.

Photographing our train proved impossible because there wasn't enough station time to reach the head end and reboard. Even at the border crossing, it took less than 4 minutes to drop off two local cars and change motive power from a Swiss electric to a German diesel.

The sheer volume of European passenger trains is amazing. One schedule board in the Zurich station listed nearly 30 trains... all departing within the next 20 minutes! These boards are updated every few minutes as trains depart. Our train was listed with three others that all left at the same time.

Our train began to move exactly on time and, as we cleared the platforms, two others appeared on parallel tracks to our left, with another on the right. All four trains accelerated rapidly as we passed through some of the most

complicated multiple-track junctions I've ever seen. One train turned away to the left, another disappeared between buildings to the right, while the third climbed a ramp to pass over us on a long curving viaduct!

Changing trains proved the wisdom of George's luggage comments. European stations have multiple platforms connected by subways. Crossing tracks is strictly prohibited, and there seems to be some sort of rule that the connecting train is never right across the platform. Most of the time, Bill and I had to descend a stairway into the subway, check a schedule poster to locate the departure track, walk through the subway, and climb another stairway up to the platform. This may not sound like much, but in a 25- or 30-track station, it becomes quite a workout. Even my medium-size suitcase began to feel like a footlocker after a day or two.

Bill clued me in to stay near the middle of the platform and keep an eye out for passing trains. Express trains roar right through the stations at speed, often at times when the platform is full of people waiting for a following train. Everyone is expected to stay back and out of the way.

A large sign near the stairway shows the makeup of each train using that platform. Symbols show the train consist, including the locomotive and first- and

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second-class cars, and the position of the food service car. Letters A through E are marked above the consists to correspond with signs hung beneath the platform roof. Everyone moves to the appropriate platform before the train arrives. Many of the stations also had changeable signs along the platform to display train and destination information.

European station stops are very short, usually no more than a minute or so. There isn't much time to move very far, especially with a suitcase. We looked for the nearest first-class car and checked its destination sign before boarding. More than once, we discovered the train we were looking at was the one *ahead* of our train due to the close headways. It wasn't unusual to have one train drifting into the track as the previous one cleared the other end.

All the car doors have an electro-pneumatic latching system that releases when the train stops. Passengers are expected to open their own doors to board or leave the train. Everyone handles his or her own luggage as well. In the small stations, the guard (conductor) blows a whistle just before departure. Larger stations use a pleasant-sounding two-note chime over the public address system. The doors latch automatically as the train begins to move.

Nuremberg proved to be a beautiful, modern city with an excellent public

transportation system. Bill and I each bought a special Toy Fair pass, good on all the city's trains, subways, street-cars, and buses. One subway station was close to the hotel, so the trip to the fairgrounds took less than 20 minutes.

The Toy Fair is a huge undertaking, occupying nine exhibition halls, with hundreds of exhibitors in each one. As a trade show, it isn't open to the public and cameras aren't allowed. Most of the model railroad manufacturers were in one hall, but it was interesting to take a look at the toy halls as well. Most booths were far more elaborate than those seen in American trade shows. Lighted showcases, superb graphics, and fully finished operating layouts and dioramas were everywhere.

My first day involved looking over the displays and making appointments to visit various manufacturers later in the week. Meetings are conducted in private hospitality rooms built within the displays. In these controlled-access areas manufacturers show preproduction samples and do their sales work.

Judging from the quantity and quality of the models, European model railroading is thriving. One look around, and I realized that the European items sold in the United States represent only a tiny fraction of what's available. Naturally, there is a heavy emphasis on passenger trains. Models of nearly

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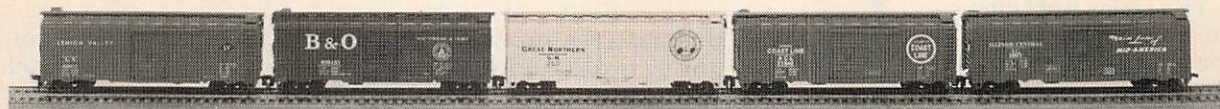
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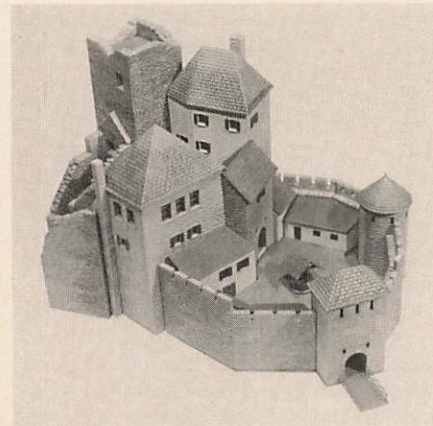
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all the different cars and locomotives in regular service are made somewhere. Freight models are also widely available, but they aren't nearly as popular as the passenger equipment.

The passenger car models are finished to a much higher degree than anything sold in North America. These models are also far more expensive. All the cars on display included superb interior detailing, special lighting, and window glazing with heat-stamped frames and curtains. One HO dining car even had place settings molded into the tabletops, heat-stamped silverware, and working lamps!



The plastic structure companies had their entire lines of kits built into

beautiful villages and special dioramas. Nearly all of these operating layouts included a castle, like this N scale structure from Pola. That's because many towns grew up around these historic sites. All sorts of finishing touches were included in these display layouts such as lighting, animation, and dozens of vehicles and figures.

At the other extreme, one electronics manufacturer had a clear Plexiglas layout that demonstrated all the wiring and control devices involved in the firm's operating signal system.

Throughout the trip, I saw a number of European layouts and several manufacturing plants. Many of their modeling techniques are similar to those seen and used in North America. Others, such as the computer-controlled tool-making equipment, were very advanced. Highly sophisticated command control systems are offered by many firms, but most didn't include the workaround capability found in the United States.

In any case, this trip proved to be an eye-opener. I've always been aware of European trains and model railroading through the hobby magazines and products exported to the United States. However, I had no idea of the quantity or sophistication of the models that are available. I think both European and American modelers have a lot to learn about each other. — *Jim Hediger*

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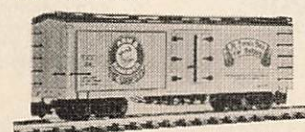
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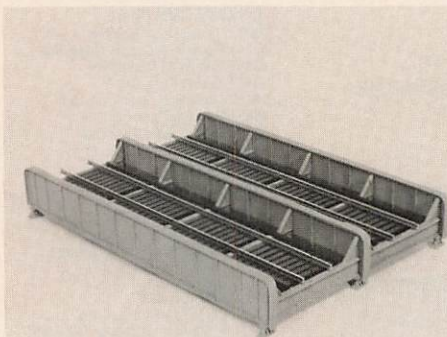
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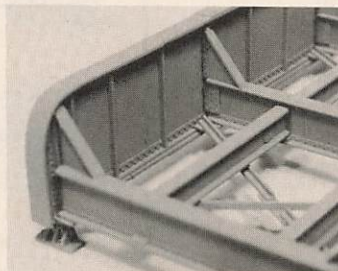
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Eli Whitney Museum exhibit: New Haven, Conn., is blessed with many fine museums. One of the more noteworthy is the Eli Whitney Museum, which depicts the industrial history of New Haven and one of its most prominent citizens, inventor Eli Whitney. Each year museum director Bill Brown, his staff, and volunteers prepare an exhibit of miniature trains for the region's children. The exhibit is intended to be a hands-on experience for young people.

Every year, Lester Case (an electronics technician and museum volunteer) constructs a four-track toy train layout. Each of the four loops is powered individually, and the controls are arranged for use by youthful visitors. This year's exhibit is entitled "Gilbert Magic," and it will run from Thanksgiving weekend through January 15, 1992.

With so many hours of operation, the trains suffer from overuse and need constant maintenance to keep them running. Additional trains were purchased last year with the help of Ammato's Toy and Hobby Shop in Middletown, Conn. This acquisition took some financial assistance, so a unique fund-raising effort was undertaken.

Cheever Tyler, a friend of the museum, suggested running a tour of local model railroads to raise funds. The tour was combined with a dinner at the museum that included a presentation by Norman Fineberg, who exhibited and ran trains from his tinplate collection.

Then vans transported the guests to three nearby layouts, in G, O, and HO scales. There they could view the layouts and join in operating the trains. The fee was \$100 per person, which brought the museum more than \$4,000 to use for the acquisition and maintenance of the operating toy trains.

The reaction of the participants was enthusiastic. And all visitors indicated they would like to return.

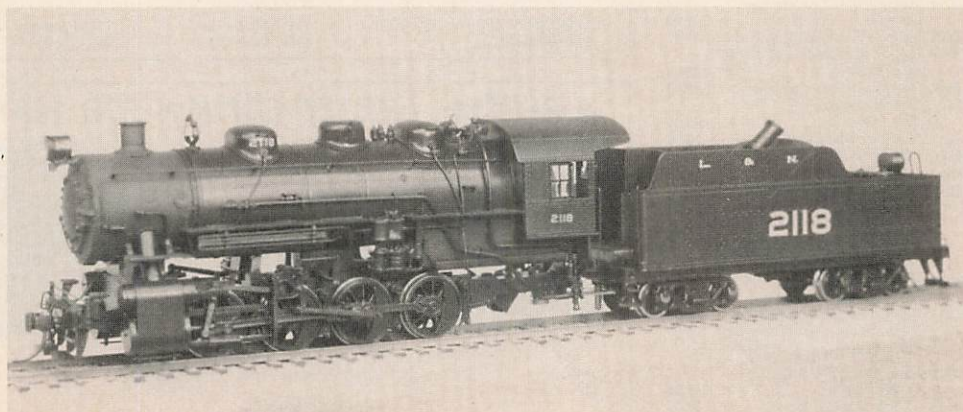
The Eli Whitney Museum is located at 915 Whitney Ave., Hamden, Conn.; 203-777-1833. "Gilbert Magic" is part of a larger display of toys and appliances made by A. C. Gilbert. — Bert Sacco

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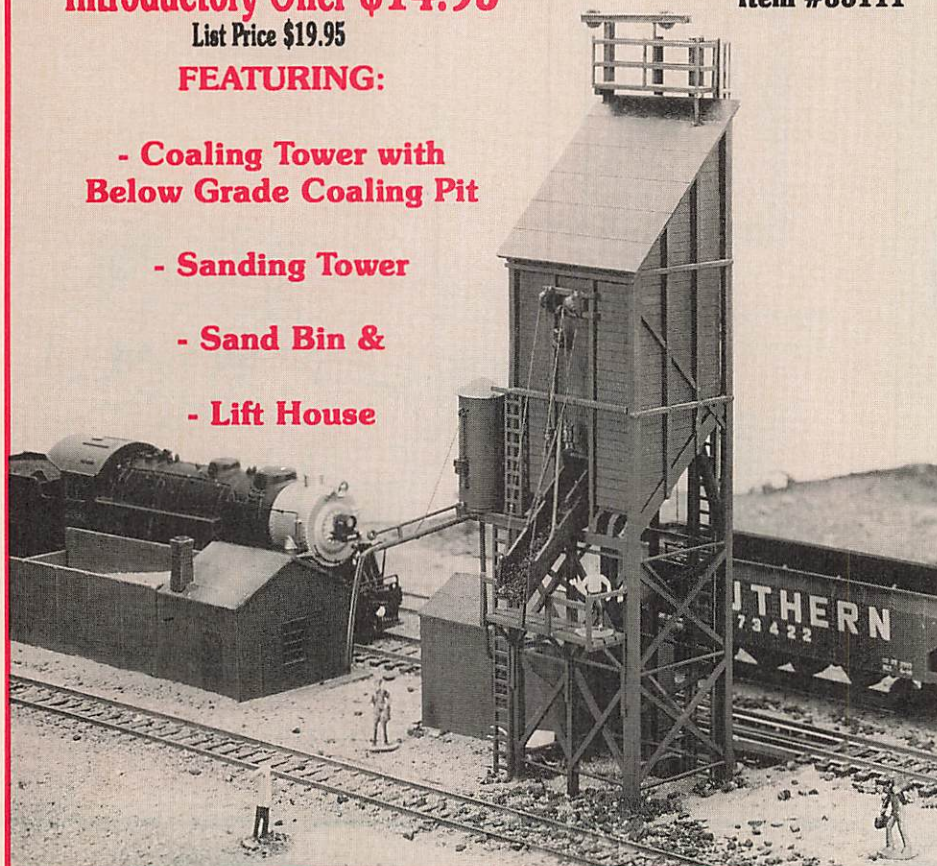
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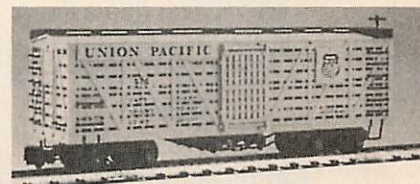
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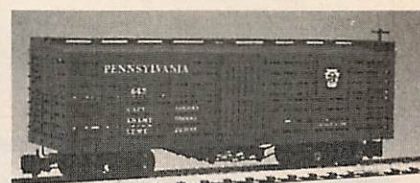
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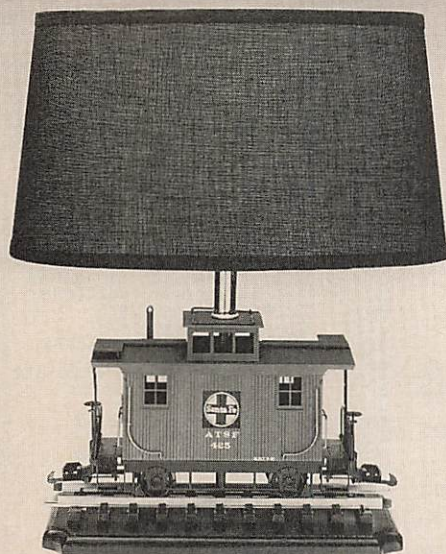
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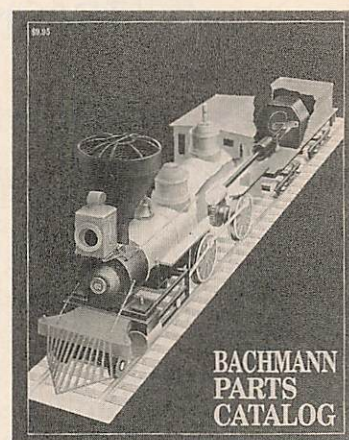
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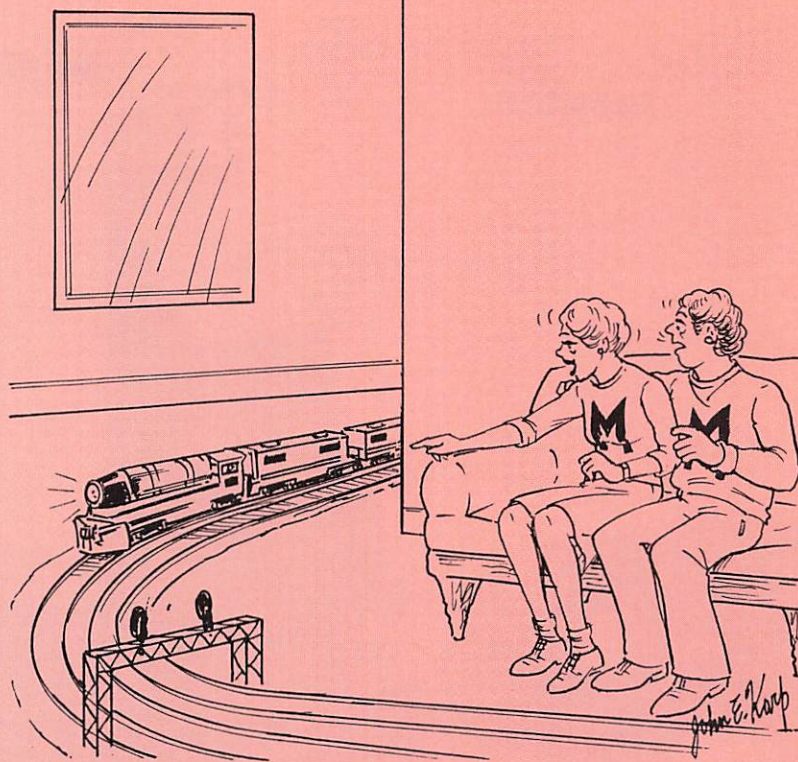
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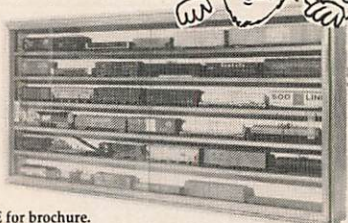
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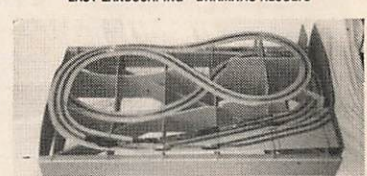
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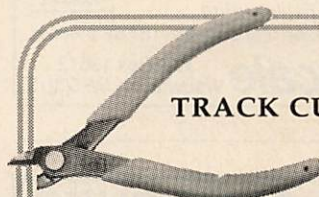
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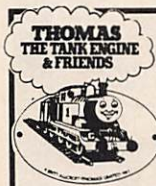
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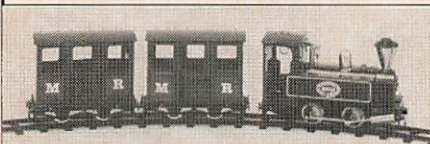
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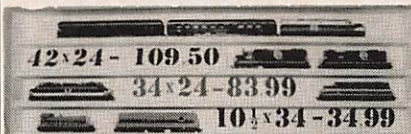
February 15, 1992: Fayetteville, N.C. Toy & Train Show, Cumberland Expo Center, Highway #301. Info. Carolina Hobby Expo (704) 786-8373.

February 15, 1992: Jacksonville, Florida. Southeastern Railroadiana Collectors Thirteenth Annual Railroadiana/Model Train Sale and Trade Show. 300 Tables. Jacksonville's Prime Osborn Convention Center, 1000 West Water Street. 9:00am to 4:00pm. Admission \$3.00. Tables \$30.00. Information LSSAE Jack Martin, 4183 Paran Pines, Atlanta, GA 30327.

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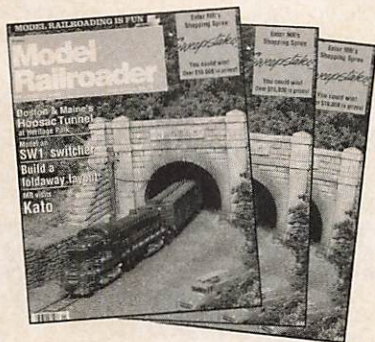


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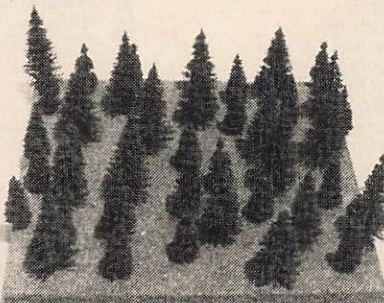


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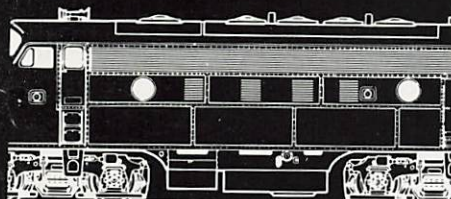
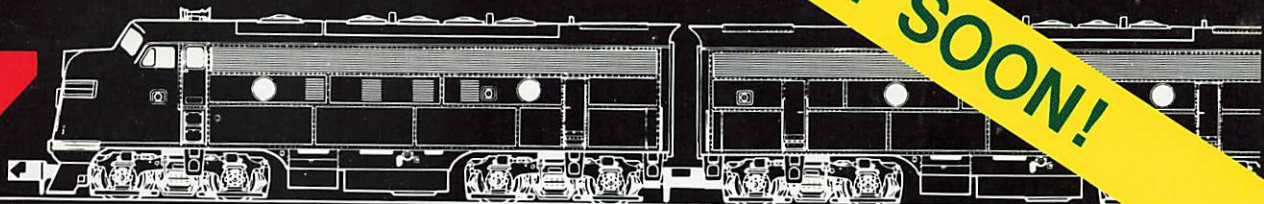
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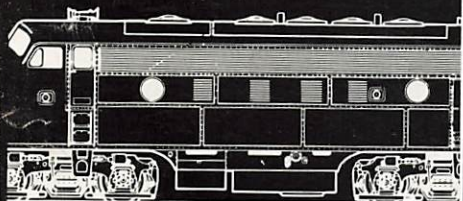


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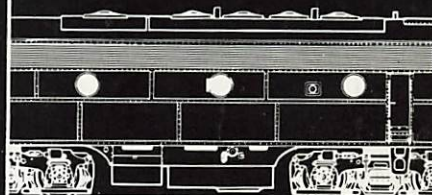


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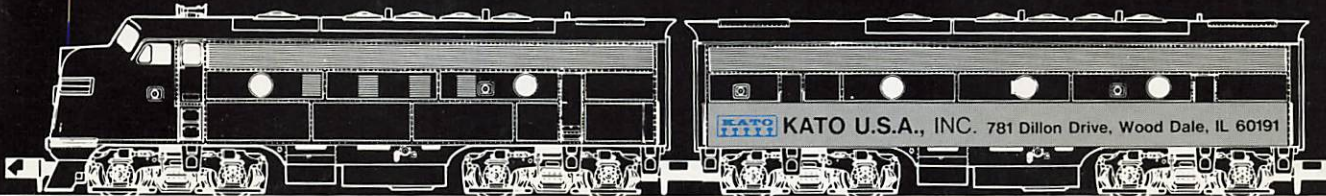
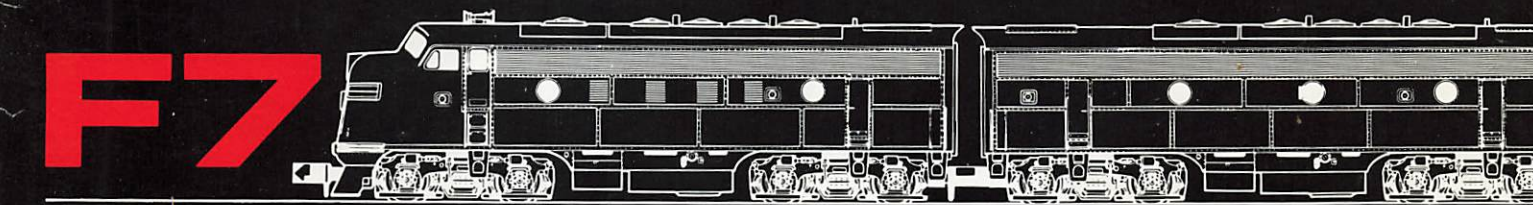


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